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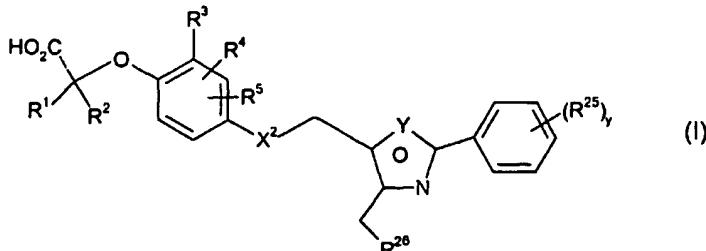
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(54) Title: THIAZOLE AND OXAZOLE DERIVATIVES AS ACTIVATORS OF HUMAN PEROXISOME PROLIFERATOR ACTIVATED RECEPTORS



(57) Abstract: The present invention provides a compound of formula (I) wherein R₁-R₅, R₂₅, R₂₆, Y and X₂ are defined as in claim 1. The compounds activate human peroxisome proliferator activated receptors (hPPARs) and are useful for the treatment of associated disorders such as cardiovascular disease and hypercholesterolemia.

THIAZOLE AND OXAZOLE DERIVATIVES AS ACTIVATORS OF HUMAN PEROXISOME PROLIFERATOR ACTIVATED RECEPTORS

The present invention relates to certain novel compounds. In particular, the present invention 5 relates to compounds that activate human peroxisome proliferator activated receptors ("hPPARs"). The present invention also relates to methods for preparing the compounds, their use in medicine, pharmaceutical compositions containing them and methods for the prevention or treatment of PPAR mediated diseases or conditions.

Several independent risk factors have been associated with cardiovascular disease. These 10 include hypertension, increased fibrinogen levels, high levels of triglycerides, elevated LDL cholesterol, elevated total cholesterol, and low levels of HDL cholesterol. HMG CoA reductase Inhibitors ("statins") are useful for treating conditions characterized by high LDL-c levels. It has been shown that lowering LDL-c is not sufficient for reducing the risk of cardiovascular disease in some patients, particularly those with normal LDL-c levels. This population pool is identified by the 15 independent risk factor of low HDL-c. The increased risk of cardiovascular disease associated with low HDL-c levels has not yet been successfully addressed by drug therapy (i.e. currently there are no drugs on the market that are useful for raising HDL-c). (Bisgaier, C. L.; Pape, M. E. *Curr. Pharm. Des.* 1998, 4, 53-70).

Syndrome X (including metabolic syndrome) is loosely defined as a collection of abnormalities 20 including hyperinsulinemia, obesity, elevated levels of triglycerides, uric acid, fibrinogen, small dense LDL particles, and plasminogen activator inhibitor 1 (PAI-1), and decreased levels of HDL-c.

NIDDM is described as insulin resistance which in turn causes anomalous glucose output and a decrease in glucose uptake by skeletal muscle. These factors eventually lead to impaired glucose tolerance (IGT) and hyperinsulinemia.

25 Peroxisome Proliferator Activated Receptors (PPARs) are ophan receptors belonging to the steroid/retinoid receptor superfamily of ligand-activated transcription factors. See, for example Willson T.M. and Wahli, W., *Curr. Opin. Chem. Biol.* (1997) Vol 1 pp 235-241 and Willson T.M. et. al., *J. Med. Chem.* (2000) Vol 43 p527-549. The binding of agonist ligands to the receptor results in changes in the expression level of mRNA's encoded by PPAR target genes.

30 Three mammalian Peroxisome Proliferator-Activated Receptors have been isolated and termed PPAR-alpha, PPAR-gamma, and PPAR-delta (also known as NUC1 or PPAR-beta). These PPARs regulate expression of target genes by binding to DNA sequence elements, termed PPAR response elements (PPRE). To date, PPRE's have been identified in the enhancers of a number of genes encoding proteins that regulate lipid metabolism suggesting that PPARs play a pivotal role in 35 the adipogenic signaling cascade and lipid homeostasis (H. Keller and W. Wahli, *Trends Endocrin. Met* 291-296, 4 (1993)).

40 It has now been reported that thiazolidinediones are potent and selective activators of PPAR-gamma and bind directly to the PPAR-gamma receptor (J. M. Lehmann et. al., *J. Biol. Chem.* 12953-12956, 270 (1995)), providing evidence that PPAR-gamma is a possible target for the therapeutic actions of the thiazolidinediones.

Activators of the nuclear receptor PPAR γ , for example troglitazone, have been shown in the clinic to enhance insulin-action, reduce serum glucose and have small but significant effects on

reducing serum triglyceride levels in patients with Type 2 diabetes. See, for example, D. E. Kelly et al., *Curr. Opin. Endocrinol. Diabetes*, 90-96, 5 (2), (1998); M. D. Johnson et al., *Ann. Pharmacother.*, 337-348, 32 (3), (1997); and M. Leutenegger et al., *Curr. Ther. Res.*, 403-416, 58 (7), (1997).

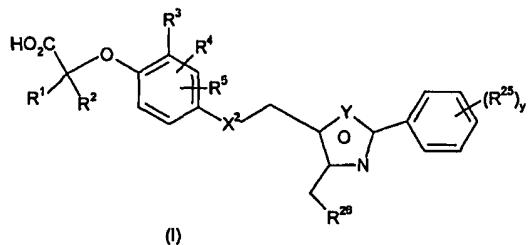
5 The mechanism for this triglyceride lowering effect appears to be predominantly increased clearance of very low density lipoproteins (VLDL) through induction of lipoprotein lipase (LPL) gene expression. See, for example, B. Staels et al., *Arterioscler. Thromb., Vasc. Biol.*, 1756-1764, 17 (9), (1997).

10 Fibrates are a class of drugs which may lower serum triglycerides 20-50%, lower LDLc 10-15%, shift the LDL particle size from the more atherogenic small dense to normal dense LDL, and increase HDLc 10-15%. Experimental evidence indicates that the effects of fibrates on serum lipids are mediated through activation of PPAR α . See, for example, B. Staels et al., *Curr. Pharm. Des.*, 1-14, 3 (1), (1997). Activation of PPAR α results in transcription of enzymes that increase fatty acid catabolism and decrease de-novo fatty acid synthesis in the liver resulting in decreased triglyceride synthesis and VLDL production/secretion. In addition, PPAR α activation decreases production of 15 apoC-III. Reduction in apoC-III, an inhibitor of LPL activity, increases clearance of VLDL. See, for example, J. Auwerx et al., *Atherosclerosis*, (Shannon, Ire.), S29-S37, 124 (Suppl), (1996).

15 Certain compounds that activate or otherwise interact with one or more of the PPARs have been implicated in the regulation of triglyceride and cholesterol levels in animal models. See, for example, U.S. Patents 5,847,008 (Doebber et al.) and 5,859,051 (Adams et al.) and PCT publications 20 WO 97/28149 (Leibowitz et al.) and WO99/04815 (Shimokawa et al.). In a recent report (Berger et al., *J. Biol. Chem.* 1999), vol. 274, pp. 6718-6725) it was stated that PPAR α activation does not appear to modulate glucose or triglyceride levels.

In one aspect, the present invention provides compounds of formula (I) and pharmaceutically acceptable salts, solvates, and hydrolysable esters thereof wherein;

25



R¹ and R² are independently hydrogen or C₁₋₃ alkyl;

X² is O, S, or CH₂;

30 R³, R⁴, and R⁵ are independently H, C₁₋₃alkyl, OCH₃, CF₃, OCF₃, allyl, CN, or halogen;

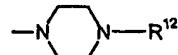
Y is S or O;

each R²⁵ is independently CH₃, OCH₃, OCF₃, CF₃, or halogen;

y is 0, 1, 2, 3, 4 or 5; and

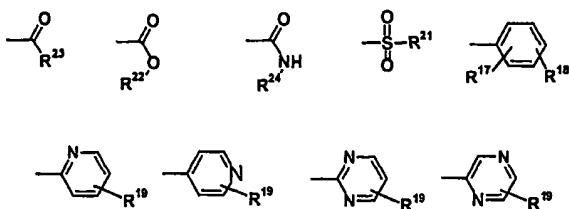
R²⁶ is selected from the group consisting of the moieties A through K depicted below:

35

A

wherein R¹² is selected from the group consisting of C₁₋₆alkyl, C₁₋₆alkylenearyl, and the moieties depicted below in Group II,

5



Group II

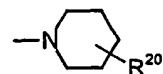
wherein R¹⁷ and R¹⁸ are independently hydrogen, halogen, hydroxy, -CN, C₁₋₆alkyl, C₁₋₆perfluoroalkyl, C₁₋₆acyl, -OC₁₋₆alkyl, perfluoroOC₁₋₆alkyl, or C₁₋₆hydroxyalkyl;

10 R¹⁹ is hydrogen or C₁₋₆alkyl;R²¹ is C₁₋₆alkyl, -C₁₋₆alkylenearyl, aryl, or -aryl-heteroaryl;R²² is C₁₋₆alkyl, aryl, or -C₁₋₆alkylenearyl;R²³ is C₁₋₆alkyl, C₃₋₆cycloalkyl, or aryl;R²⁴ is C₁₋₆alkyl, -C₁₋₆alkylenearyl, C₃₋₆cycloalkyl, or aryl;

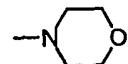
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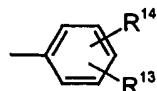
B

wherein Z is O, N or S (note that when Z is N, the depicted bond can be attached to the 20 nitrogen in the ring as well as any of the carbons in the ring);

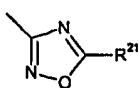
C

25 wherein R²⁰ is C₁₋₆alkyl, aryl, -OC₁₋₆alkyl, hydroxy, C₁₋₆hydroxyalkyl, or 1-alkoxyC₁₋₆alkyl;

D

E

5 wherein R¹³ and R¹⁴ are independently hydrogen, halogen, CN, perfluoroC₁₋₆alkyl, perfluoroOC₁₋₆alkyl, C₁₋₆alkyl, -OC₁₋₆alkyl, -C₁₋₆alkyleneOC₁₋₆alkyl, -SC₁₋₆alkyl, or aryl;

F

10 wherein R²¹ is independently as defined above;

G

15 wherein R¹⁵ and R¹⁶ are independently hydrogen, C₁₋₆alkyl, C₃₋₆cycloalkyl optionally substituted with 1 or 2 C₁₋₃alkyl groups, or R¹² as defined above;

H

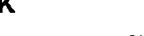
20

I

wherein n is 1-3

J

25 wherein R²¹ is independently as defined above; and

K

30 wherein R²¹ is independently as defined above. As used herein "aryl" or in any phrase or term including "aryl" such as "-C₁₋₆alkylenearyl", the "aryl" means a phenyl group or a 5 or 6 membered heteroaryl group. As used herein "heteroaryl" means a 5 or 6 membered heteroaryl group. As used

herein any such "aryl" or "heteroaryl" group may optionally be substituted with one or two substituents selected from the group consisting of halogen, CN, dimethylamino, perfluoroC₁₋₆alkyl, perfluoroC₁₋₆alkyl, C₁₋₆alkyl, -OC₁₋₆alkyl, -C₁₋₆alkyleneOC₁₋₆alkyl, and -SC₁₋₆alkyl.

In another aspect, the present invention discloses a method for prevention or treatment of a disease or condition mediated by one or more human PPAR alpha, gamma or delta ("hPPARs") comprising administration of a therapeutically effective amount of a compound of this invention. hPPAR mediated diseases or conditions include dyslipidemia including associated diabetic dyslipidemia and mixed dyslipidemia, syndrome X (as defined in this application this embraces metabolic syndrome), heart failure, hypercholesterolemia, cardiovascular disease including atherosclerosis, arteriosclerosis, and hypertriglyceridemia, type II diabetes mellitus, type I diabetes, insulin resistance, hyperlipidemia, inflammation, epithelial hyperproliferative diseases including eczema and psoriasis and conditions associated with the lung and gut and regulation of appetite and food intake in subjects suffering from disorders such as obesity, anorexia bulimia, and anorexia nervosa. In particular, the compounds of this invention are useful in the treatment and prevention of diabetes and cardiovascular diseases and conditions including atherosclerosis, arteriosclerosis, hypertriglyceridemia, and mixed dyslipidaemia.

In another aspect, the present invention provides pharmaceutical compositions comprising a compound of the invention, preferably in association with a pharmaceutically acceptable diluent or carrier.

In another aspect, the present invention provides a compound of the invention for use in therapy, and in particular, in human medicine.

In another aspect, the present invention provides the use of a compound of the invention for the manufacture of a medicament for the treatment of a hPPAR mediated disease or condition.

As used herein, "a compound of the Invention" means a compound of formula (I) or a pharmaceutically acceptable hydrolyzable ester or, solvate, thereof.

While hydrolyzable esters are included in the scope of this invention, the acids are preferred because the data suggests that while the esters are useful compounds, it may actually be the acids to which they hydrolyze that are the active compounds. Esters that hydrolyze readily can produce the carboxylic acid in the assay conditions or in vivo. Generally the carboxylic acid is active in both the binding and transient transfection assays, while the ester does not usually bind well but is active in the transient transfection assay presumably due to hydrolysis. Preferred hydrolysable esters are C₁₋₆ alkyl esters wherein the alkyl group may be straight chain or branched chain. Methyl or ethyl esters are more preferred.

Preferably R¹ and R² are independently H or CH₃. Most preferably R¹ and R² are either both H or both CH₃.

Preferably X² is O or S. More preferably X² is S;

Preferably R³ is CH₃ or H;

Preferably R⁴ and R⁵ are H.

Preferably Y is S.

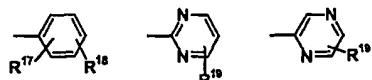
Preferably y is 1 or 2. When y is 2, preferably one R²⁵ is halogen; more preferably one is halogen and the other is CF₃. When y is 1, preferably the R²⁵ is in the para position on the ring and is more preferably CF₃.

Preferably R²⁶ is selected from the moieties shown below in Group III.



Group III

Preferably R¹² is selected from the moieties shown below in Group IV.



Group IV

5 Preferably R¹³ or R¹⁴ are independently fluorine, bromine, phenyl, thienyl, CF₃, OCF₃, OCH₃, SCH₃, or t-butyl. Most preferably R¹⁴ is thienyl, OCH₃, OCF₃, CF₃, or fluorine. Most preferably R¹⁴ is substituted para to the depicted open valence. Most preferably R¹³ is hydrogen or fluorine.

Preferably R¹⁷ and R¹⁸ are independently hydrogen, OH, OC₁₋₃alkyl, CN, halogen, CF₃, 10 COCH₃, CH(OH)CH₃, or OCF₃. Most preferably R¹⁷ is fluorine, chlorine, OC₁₋₃alkyl, or COCH₃ and R¹⁸ is OCH₃ or hydrogen. Most preferably R¹⁷ is substituted para to the depicted open valence.

Preferably R²⁰ is phenyl, methyl, OCH₃, OH, or CH₂OH.

Preferably R²¹ is -C₁₋₃alkylenephenoxy, phenyl-5-methyl-1,2,4-oxadiazol-3-yl, or phenyl optionally substituted by methyl or CN.

15 Preferably R²² is C₁₋₆alkyl, phenyl, or benzyl.

Preferably R²³ is C₁₋₆alkyl, furanyl, thienyl, methoxymethyl, C₃₋₆cyclalkyl, or phenyl optionally substituted by a halogen a methoxy or a dimethylamino group.

Preferably R²⁴ is H, C₁₋₆alkyl, cyclohexyl, m-methoxyphenyl, p-fluorophenyl, or -CH₂CH₂phenyl.

20 Preferably R¹⁹ is hydrogen.

Particularly preferred compounds will be those in which most or all of the variables are selected from the preferred or most preferred groups for each variable.

While the preferred groups for each variable have generally been listed above separately for each variable, preferred compounds of this invention include those in which several or each variable 25 in Formula (I) is selected from the preferred, more preferred, or most preferred groups for each variable. Therefore, this invention is intended to include all combinations of preferred, more preferred, and most preferred groups.

Suitable compounds of formula (1) include:

2-[4-((4-(4-acetylphenyl)-1-piperazinyl)methyl)-2-(4-fluorophenyl)-1,3-thiazol-5-30 yl)methyl]sulfanyloxy-2-methylphenoxy]-2-methylpropanoic acid,

2-methyl-2-(2-methyl-4-[(4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyloxy)phenoxy]propanoic acid,

(2-methyl-4-[(4-(3-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyloxy)phenoxy}acetic acid,

35 (4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyloxy]-2,5-dimethylphenoxy)acetic acid,

2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-ethylphenoxy}propanoic acid,

5 2-{2-methyl-4-[(4-(2-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}propanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

10 2-{4-[(4-(4-ethoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

15 2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-propylphenoxy}propanoic acid,

20 2-methyl-4-[(4-[4-(3-thienyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid,

2-{4-[(2-(4-fluorophenyl)-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}-2-methylpropanoic acid,

25 2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}-2-methylpropanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-propylphenoxy}propanoic acid,

30 2-{4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid,

2-{2-ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}propanoic acid,

35 2-{4-[(4-[4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-propylphenoxy}acetic acid,

40 2-{4-[(4-[1,1'-biphenyl]-4-ylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}acetic acid,

2-{4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy}propanoic acid,

2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-ethylphenoxy}propanoic acid,

45 2-{4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy}acetic acid,

2-{2-methyl-4-[{(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

5 {4-[(4-(2-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}acetic acid,

10 2-{2-isopropyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

15 2-{4-[(4-(4-tert-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}2-methylpropanoic acid,

20 2-{4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid,

25 2-{4-[(4-(4-chlorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid,

30 2-{4-[(4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}acetic acid,

35 2-{4-[(4-(2,4-difluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid,

40 2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}2-methylpropanoic acid,

2-methyl-2-{2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid,

2-{2-ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

2-{4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid,

2-methyl-2-{2-methyl-4-[(4-(2-pyrazinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}2-methylpropanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}2-methylpropanoic acid,

2-methyl-2-{2-methyl-4-[(4-(4-(trifluoromethoxy)benzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

2-{4-[(4-(4-isopropoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid,

2-{2-methyl-4-[(4-(2-pyrimidinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

2-{2-methyl-4-[(4-(2-pyrimidinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid,

{2-methyl-4-[{(4-(3-phenylpropyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

[4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-(trifluoromethyl)phenoxy]acetic acid,

5 {2-methyl-4-[{(4-[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

[4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]5-chloro-2-methylphenoxy]acetic acid,

10 {4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy]acetic acid,

{4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy]acetic acid,

{2,5-dimethyl-4-[{(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

15 {2-methyl-4-[{(4-[4-(2-pyrazinyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

{4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2,3-dimethylphenoxy]acetic acid,

[4-[(2-(4-chlorophenyl)-4-methyl-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy]acetic

20 acid,

{2-methyl-4-[{(4-[4-(4-methyl-2-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

{4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-bromophenoxy]acetic acid,

25 {2-methyl-4-[{(4-[2-phenylethoxy)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

{2-methyl-4-[{(4-(2-phenylethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid, and

pharmaceutically acceptable salts, solvates, and hydrolyzable esters thereof.

30 More preferred compounds of formula (1) include:

2-methyl-2-(2-methyl-4-[{(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy)propanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy)propanoic acid,

35 {2-ethyl-4-[{(4-[4-(4-methoxyphenyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid,

2-{4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy)-2-methylpropanoic acid,

40 2-methyl-2-{4-[{(4-(2-pyrazinyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy)propanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy)-2-methylpropanoic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]phenoxy}-2-methylpropanoic acid,

2-methyl-2-{2-methyl-4-[(4-(4-(trifluoromethoxy)benzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid,

5 2-{4-[(4-(4-isopropoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]2-methylphenoxy}propanoic acid,

2-{2-methyl-4-[(4-(2-pyrimidinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]phenoxy}propanoic acid, and

pharmaceutically acceptable salts, solvates, and hydrolyzable esters thereof.

10

Preferably, the compounds of formula (I) are hPPAR agonists. The hPPAR agonists of formula (I) may be agonists of only one type ("selective agonists"), agonists for two PPAR subtypes ("dual agonists"), or agonists for all three subtypes ("pan agonists"). As used herein, by "agonist", or "activating compound", or "activator", or the like, is meant those compounds which have a pKi of at least 5.0 preferably at least 6.0 to the relevant PPAR, for example hPPAR α in the binding assay described below, and which achieve at least 30% activation of the relevant PPAR relative to the appropriate indicated positive control in the transfection assay described below at concentrations of 10⁻⁶ M or less. More preferably, the compounds of this invention achieve 30% activation of at least one human PPAR in the relevant transfection assay at concentrations of 10⁻⁶ M or less. More preferably the compounds of the invention achieve 30% activation of at least one human PPAR in the relevant transfection assay at concentrations of 10⁻⁷ M or less.

Preferably the compounds of formula (I) are hPPAR δ agonists. More preferably they are also agonists of at least one of PPAR γ or PPAR α . Most preferably they are pan hPPAR agonists.

15

It will also be appreciated by those skilled in the art that the compounds of the present invention may also be utilized in the form of a pharmaceutically acceptable salt or solvate thereof. The physiologically acceptable salts of the compounds of formula (I) include conventional salts formed from pharmaceutically acceptable inorganic or organic acids or bases as well as quaternary ammonium acid addition salts. More specific examples of suitable acid salts include hydrochloric, hydrobromic, sulfuric, phosphoric, nitric, perchloric, fumaric, acetic, propionic, succinic, glycolic, 30 formic, lactic, maleic, tartaric, citric, palmitic, malonic, hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic, fumaric, toluenesulfonic, methanesulfonic, naphthalene-2-sulfonic, benzenesulfonic hydroxynaphthoic, hydroiodic, malic, steroic, tannic and the like. Other acids such as oxalic, while not in themselves pharmaceutically acceptable, may be useful in the preparation of salts useful as intermediates in obtaining the compounds of the invention and their pharmaceutically acceptable salts.

35

More specific examples of suitable basic salts include sodium, lithium, potassium, magnesium, aluminium, calcium, zinc, N,N'-dibenzylethylenediamine, chlorprocaine, choline, diethanolamine, ethylenediamine, N-methylglucamine and procaine salts. Those skilled in the art of organic chemistry will appreciate that many organic compounds can form complexes with solvents in which they are reacted or from which they are precipitated or crystallized. These complexes are known as "solvates".

40

For example, a complex with water is known as a "hydrate". Solvates of the compound of formula (I) are within the scope of the invention. References hereinafter to a compound according to the

invention include both compounds of formula (I) and their pharmaceutically acceptable salts and solvates.

The compounds of the invention and their pharmaceutically acceptable derivatives are conveniently administered in the form of pharmaceutical compositions. Such compositions may 5 conveniently be presented for use in conventional manner in admixture with one or more physiologically acceptable carriers or excipients.

While it is possible that compounds of the present invention may be therapeutically administered as the raw chemical, it is preferable to present the active ingredient as a pharmaceutical formulation. The carrier(s) must be "acceptable" in the sense of being compatible with the other 10 ingredients of the formulation and not deleterious to the recipient thereof.

Accordingly, the present invention further provides for a pharmaceutical formulation comprising a compound of formula (I) or a pharmaceutically acceptable salt or solvate thereof together with one or more pharmaceutically acceptable carriers therefore and, optionally, other therapeutic and/or prophylactic ingredients.

15 The formulations include those suitable for oral, parenteral (including subcutaneous e.g. by injection or by depot tablet, intradermal, intrathecal, intramuscular e.g. by depot and intravenous), rectal and topical (including dermal, buccal and sublingual) administration although the most suitable route may depend upon for example the condition and disorder of the recipient. The formulations may conveniently be presented in unit dosage form and may be prepared by any of the methods well known in the art of pharmacy. All methods include the step of bringing into association the 20 compounds ("active ingredient") with the carrier which constitutes one or more accessory ingredients. In general the formulations are prepared by uniformly and intimately bringing into association the active ingredient with liquid carriers or finely divided solid carriers or both and then, if necessary, shaping the product into the desired formulation.

25 Formulations suitable for oral administration may be presented as discrete units such as capsules, cachets or tablets (e.g. chewable tablets in particular for paediatric administration) each containing a predetermined amount of the active ingredient; as a powder or granules; as a solution or a suspension in an aqueous liquid or a non-aqueous liquid; or as an oil-in-water liquid emulsion or a water-in-oil liquid emulsion. The active ingredient may also be presented as a bolus, electuary or paste.

30 A tablet may be made by compression or moulding, optionally with one or more accessory ingredients. Compressed tablets may be prepared by compressing in a suitable machine the active ingredient in a free-flowing form such as a powder or granules, optionally mixed with other conventional excipients such as binding agents, (for example, syrup, acacia, gelatin, sorbitol, tragacanth, mucilage of starch or polyvinylpyrrolidone), fillers (for example, lactose, sugar, 35 microcrystalline cellulose, maize-starch, calcium phosphate or sorbitol), lubricants (for example, magnesium stearate, stearic acid, talc, polyethylene glycol or silica), disintegrants (for example, potato starch or sodium starch glycolate) or wetting agents, such as sodium lauryl sulfate. Moulded tablets may be made by moulding in a suitable machine a mixture of the powdered compound moistened with 40 an inert liquid diluent. The tablets may optionally be coated or scored and may be formulated so as to provide slow or controlled release of the active ingredient therein. The tablets may be coated according to methods well-known in the art.

Alternatively, the compounds of the present invention may be incorporated into oral liquid preparations such as aqueous or oily suspensions, solutions, emulsions, syrups or elixirs, for example. Moreover, formulations containing these compounds may be presented as a dry product for constitution with water or other suitable vehicle before use. Such liquid preparations may contain

5 conventional additives such as suspending agents such as sorbitol syrup, methyl cellulose, glucose/sugar syrup, gelatin, hydroxyethylcellulose, carboxymethyl cellulose, aluminum stearate gel or hydrogenated edible fats; emulsifying agents such as lecithin, sorbitan mono-oleate or acacia; non-aqueous vehicles (which may include edible oils) such as almond oil, fractionated coconut oil, oily esters, propylene glycol or ethyl alcohol; and preservatives such as methyl or propyl p-

10 hydroxybenzoates or sorbic acid. Such preparations may also be formulated as suppositories, e.g., containing conventional suppository bases such as cocoa butter or other glycerides.

Formulations for parenteral administration include aqueous and non-aqueous sterile injection solutions which may contain anti-oxidants, buffers, bacteriostats and solutes which render the formulation isotonic with the blood of the intended recipient; and aqueous and non-aqueous sterile suspensions which may include suspending agents and thickening agents.

The formulations may be presented in unit-dose or multi-dose containers, for example sealed ampoules and vials, and may be stored in a freeze-dried (lyophilised) condition requiring only the addition of a sterile liquid carrier, for example, water-for-injection, immediately prior to use. Extemporaneous injection solutions and suspensions may be prepared from sterile powders, granules

20 and tablets of the kind previously described.

Formulations for rectal administration may be presented as a suppository with the usual carriers such as cocoa butter, hard fat or polyethylene glycol.

Formulations for topical administration in the mouth, for example buccally or sublingually, include lozenges comprising the active ingredient in a flavoured basis such as sucrose and acacia or tragacanth, and pastilles comprising the active ingredient in a basis such as gelatin and glycerin or sucrose and acacia.

The compounds may also be formulated as depot preparations. Such long acting formulations may be administered by implantation (for example subcutaneously or intramuscularly) or by intramuscular injection. Thus, for example, the compounds may be formulated with suitable polymeric or hydrophobic materials (for example as an emulsion in an acceptable oil) or ion exchange resins, or as sparingly soluble derivatives, for example, as a sparingly soluble salt.

In addition to the ingredients particularly mentioned above, the formulations may include other agents conventional in the art having regard to the type of formulation in question, for example those suitable for oral administration may include flavouring agents.

It will be appreciated by those skilled in the art that reference herein to treatment extends to prophylaxis as well as the treatment of established diseases or symptoms. Moreover, it will be appreciated that the amount of a compound of the invention required for use in treatment will vary with the nature of the condition being treated and the age and the condition of the patient and will be ultimately at the discretion of the attendant physician or veterinarian. In general, however, doses employed for adult human treatment will typically be in the range of 0.02-5000 mg per day, preferably 1-1500 mg per day. The desired dose may conveniently be presented in a single dose or as divided doses administered at appropriate intervals, for example as two, three, four or more sub-doses per

day. The formulations according to the invention may contain between 0.1-99% of the active ingredient, conveniently from 30-95% for tablets and capsules and 3-50% for liquid preparations.

The compound of formula (I) for use in the instant invention may be used in combination with other therapeutic agents for example, statins and/or other lipid lowering drugs for example MTP 5 Inhibitors and LDLR upregulators. The compounds of the invention may also be used in combination with antidiabetic agents, e.g. metformin, sulfonylureas and/or PPAR gamma, PPAR alpha or PPAR alpha/gamma agonists (for example thiazolidinediones such as e.g. Pioglitazone and Rosiglitazone). The compounds may also be used in combination with antihypertensive agents such as angiotensin antagonists e.g. telmisartan, calcium channel antagonists e.g. lacidipine and ACE Inhibitors e.g. 10 enalapril. The invention thus provides in a further aspect the use of a combination comprising a compound of formula (I) with a further therapeutic agent in the treatment of a hPPAR mediated disease.

When the compounds of formula (I) are used in combination with other therapeutic agents, the compounds may be administered either sequentially or simultaneously by any convenient route.

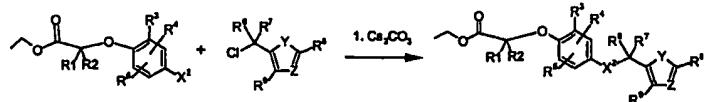
15 The combinations referred to above may conveniently be presented for use in the form of a pharmaceutical formulation and thus pharmaceutical formulations comprising a combination as defined above optimally together with a pharmaceutically acceptable carrier or excipient comprise a further aspect of the invention. The individual components of such combinations may be administered either sequentially or simultaneously in separate or combined pharmaceutical formulations.

20 When combined in the same formulation it will be appreciated that the two compounds must be stable and compatible with each other and the other components of the formulation and may be formulated for administration. When formulated separately they may be provided in any convenient formulation, conveniently in such a manner as are known for such compounds in the art.

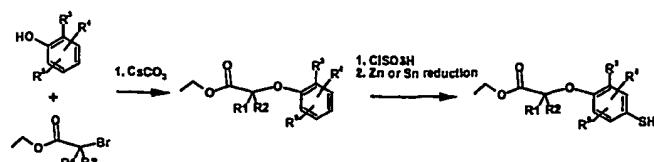
25 When a compound of formula (I) is used in combination with a second therapeutic agent active against the same hPPAR mediated disease, the dose of each compound may differ from that when the compound is used alone. Appropriate doses will be readily appreciated by those skilled in the art.

There is further provided processes for the preparation of compounds of 1. Unless otherwise indicated all definitions are as above.

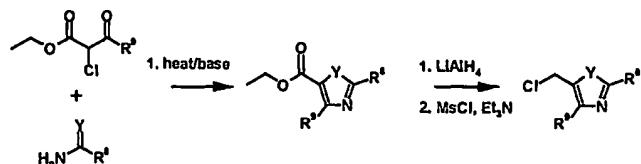
30 In general when X^2 is O or S the compounds could be assembled by coupling through an alkylation step such as that shown below.



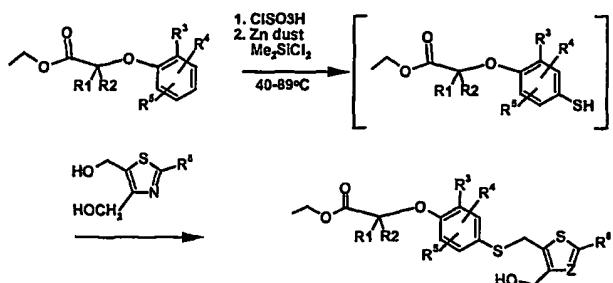
The esters are commercially available or made by the following general route when X^2 is S.



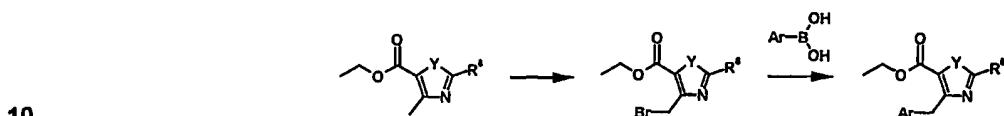
The heterocycle when Y is O or S and Z is N was generally made as shown below from an appropriate amide or thioamide:



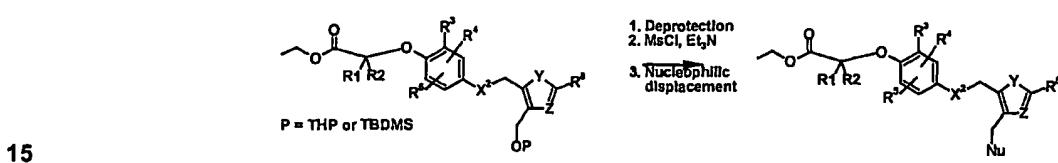
5 In specific cases the overall coupling step could be carried out directly after chlorosulfonation of the ester component without the need for formation of the chloride of the heterocyclic moiety, as shown below:



In some cases R⁹ was further elaborated through palladium coupling at the ester stage as shown below:



Alternatively R⁹ was elaborated after the coupling reaction by nucleophilic displacement of a mesylate shown below:



Examples

20

The invention is further illustrated by the following Examples which should not be construed as constituting a limitation thereto.

Ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

To a 2-L round-bottom flask equipped with an mechanical overhead stirrer, a reflux condenser and a N₂ inlet was added ethyl 4-methyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (85g, 0.27moles, 1.0eq) and dry carbon tetrachloride (750ml, 0.38M). Freshly recrystallized N-bromo succinimide (52.72g, 1.1eq) was added as a solid, Benzoyl peroxide (6.5g, 10mol%) was added at room temperature all at once as a solid, and the reaction mixture was refluxed for 5 hrs. The reaction was monitored by ¹H NMR and was determined to be composed of a 9:1 mixture of mono-bromination product (i.e. desired product) and di-bromination product with a 90% conversion. After cooling to 0 °C (to precipitate out the succinimide) the reaction was filtered through Celite and the solvent was removed under reduced pressure to yield a brown oil. The oil was crystallized using hexanes to yield 100g (94%) of an off-white product of 90% purity.

¹H NMR (CDCl₃) 400MHz δ 8.10(d, 2H, J=8.20 Hz), 7.72(d, 2H, J=8.20 Hz), 4.99(s, 2H), 4.40(q, 2H, J=7.18 Hz), 1.41(t, 3H, J=7.18 Hz),
TLC(15% EtOAc/Hexanes) R_f = 0.55

15 Ethyl 4-(bromomethyl)-2-phenyl-1,3-thiazole-5-carboxylate

The title compound was made using the same procedure as above.

¹H NMR (CDCl₃) 400MHz δ 7.98(dd, 2H, J=7.86, 1.54 Hz), 7.47(m, 3H), 4.99(s, 2H), 4.39(q, 2H, J=7.12 Hz), 1.40(t, 3H, J=7.12 Hz),
TLC(15% EtOAc/Hexanes) R_f = 0.50

20

Ethyl 4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

To a stirred solution of ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (50g, 0.127moles, 1eq) in dry DMF (300ml) under a positive N₂ flow was added silver trifluoroacetate (42.02g, 0.191moles, 1.5eq) all at once as a solid. This was stirred at room temperature for 3.5 hrs. The reaction was partitioned between ethyl ether (1.5L) and water (500ml). The phases were separated and the organic phase was washed twice with water (500ml). After separation of the phases, the organic fraction was dried with Na₂SO₄, filtered and concentrated *in vacuo*. The crude trifluoroacetate product was used without characterization. Ethanol (300ml) was added and the reaction was refluxed for 10 hrs. After cooling to room temperature the ethanol was removed *in vacuo* to yield 42g (100%) of the title compound. The product was used without purification.

¹H NMR (CDCl₃) 400MHz δ 8.09(d, 2H, J=8.20 Hz), 7.73(d, 2H, J=8.20 Hz), 5.09(s, 2H), 4.41(q, 2H, J=7.12 Hz), 1.40(t, 3H, J=7.12 Hz),

35 Ethyl 4-(hydroxymethyl)-2-phenyl-1,3-thiazole-5-carboxylate

The title compound was made using the same procedure as above.

¹H NMR (CDCl₃) 400MHz δ 7.95(m, 2H), 7.48(m, 3H), 5.09(s, 2H), 4.40(q, 2H, J=7.12 Hz), 1.41(t, 3H, J=7.12 Hz),

40

Ethyl 4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

To a 1-L round-bottom flask equipped with a magnetic stir-bar and a N₂ inlet was added Ethyl 4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (42g, 0.127moles, 1eq) and dry CH₂Cl₂ (300ml) at room temperature. This was followed by the addition of 3,4-dihydro-2H-pyran (14ml, 0.152moles, 1.2eq) as a neat liquid and pyridinium *p*-toluenesulfonate (6.4g, 25.4mmoles, 20mol%). The reaction mixture was stirred at room temperature overnight (10 hrs). The volatiles were then removed *in vacuo* and the residue was purified by flash silica gel chromatography (10% EtOAc/Hexanes to 30% EtOAc/Hexanes) to yield 34g (64%) of pure title compound.

5 ¹H NMR (CDCl₃) 400MHz δ 8.09(d, 2H, J=8.20 Hz), 7.69(d, 2H, J=8.20 Hz), 5.18(d, 1H, J=3.0 Hz), 4.99(d, 1H, J=3.0 Hz), 4.90(t, 1H, J=3.42 Hz), 4.36(q, 2H, J=7.12 Hz), 3.98(m, 1H), 3.56(m, 1H),
10 1.69(m, 6H), 1.37(t, 3H, J=7.12 Hz),
TLC(30% EtOAc/Hexanes)= 0.64

Ethyl 2-phenyl-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazole-5-carboxylate

15 ¹H NMR (CDCl₃) 400MHz δ 7.97(m, 2H), 7.43(m, 3H), 5.17(d, 1H, J=1.13 Hz), 4.98(d, 1H, J=13 Hz), 4.91(t, 1H, J=3.33 Hz), 4.35(q, 2H, J=7.12 Hz), 3.98(m, 1H), 3.54(m, 1H), 1.69(m, 6H), 1.36(t, 3H, J=7.12 Hz),

Ethyl 2-(4-fluorophenyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazole-5-carboxylate

20 ¹H NMR (CDCl₃) 400MHz δ 7.97(m, 2H), 7.11(m, 2H), 5.16(d, 1H, J=2.4 Hz), 4.97(d, 1H, J=2.4 Hz), 4.90(t, 1H, J=3.36 Hz), 4.34(q, 2H, J=7.13 Hz), 3.98(m, 1H), 3.55(m, 1H), 1.86(m, 2H), 1.70(m, 2H), 1.55(m, 2H), 1.36(t, 3H, J=7.13 Hz),

Suzuki Coupling

Ethyl 4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

25 To a solution of ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.25g, 0.63 mmol) in 4 ml of 2-methoxyethyl ether was added tetrakis(triphenylphosphine)palladium(0), (0.02g, 0.019 mmol) and then sodium carbonate (0.13g, 1.2 mmol) in 0.5 ml water. After brief stirring, 4-(trifluoromethyl)phenyl boronic acid (0.13g, 0.7 mmol) in 1 ml ethanol was added. After heating at 110°C for 15 hours, the reaction was complete by HPLC and 30 was treated with water (5 ml) and extracted with *tert*-butyl methyl ether (2 x 30ml). The organic layers were dried with magnesium sulfate and immediately loaded onto silica to give a crude residue which was purified on a Blotage FlashElute with a 40M silica cartridge, eluting with 10% ethyl acetate in hexanes to yield ethyl 4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate as a white solid (0.09g, 35%).

35 ¹H NMR (CDCl₃): 8.18 (d, 2 H), 7.78 (d, 2 H), 7.58 (m, 4 H), 4.68 (s, 2 H), 4.40 (q, 2 H), 1.40 (t, 3 H); MS m/z 460 (M+1).

The following compounds were made using the the same palladium catalyzed coupling procedure using the appropriate boronic acid.

40 **Ethyl 4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate**

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.25g, 0.63 mmol), ethyl 4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.12g, 43%) was obtained as a light yellow solid.

5 ^1H NMR (CDCl_3): δ 8.18 (d, 2 H), 7.77 (d, 2 H), 7.46 (d, 2 H), 7.18 (d, 2 H), 4.60 (s, 2 H) 4.40 (q, 2 H), 1.40 (t, 3 H); MS m/z 476 (M+1).

Ethyl 4-[4-methoxybenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.25g, 0.63 mmol), ethyl 4-[4-methoxybenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.16g, 63%) was obtained as a yellow semi-solid.

10 ^1H NMR (CDCl_3): δ 8.18 (d, 2 H), 7.70 (d, 2 H), 7.40 (d, 2 H), 6.80 (d, 2 H), 4.57 (s, 2 H), 4.40 (q, 2 H), 3.80 (s, 3 H), 1.40 (t, 3 H); MS m/z 422 (M+1).

Ethyl 4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

15 From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g, 1.01 mmol), ethyl 4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.44g, 100%) was obtained as a light yellow solid.

10 ^1H NMR (CDCl_3): δ 8.11 (d, 2 H), 7.71 (d, 2 H), 7.38 (d, 2 H), 7.21 (d, 2 H), 4.52 (s, 2 H), 4.38 (q, 2 H), 2.49 (s, 3 H), 1.40 (t, 3 H); MS m/z 438 (M+1).

20 **Ethyl 4-[4-*tert*-butylbenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate**

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g, 1.01 mmol), ethyl 4-[4-*tert*-butylbenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.24g, 54%) was obtained as a white solid.

25 ^1H NMR (CDCl_3): δ 8.11 (d, 2 H), 7.73 (d, 2 H), 7.56 (d, 1 H), 7.49 (d, 1 H), 7.34 (m, 2 H), 4.58 (s, 2 H), 4.40 (q, 2 H), 1.40 (t, 3 H), 1.27 (s, 9 H); MS m/z 448 (M+1).

Ethyl 4-[3-thienylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

30 From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g, 1.01 mmol), ethyl 4-[3-thienylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g 100%) was obtained as a yellow solid.

35 ^1H NMR (CDCl_3): δ 8.12 (d, 2 H), 7.77 (d, 2 H), 7.40 (d, 1 H), 7.28 (d, 1 H), 7.20 (s, 1 H), 4.61 (s, 2 H), 4.41 (q, 2 H), 1.40 (t, 3 H); MS m/z 398 (M+1).

35 **Ethyl 4-[2-furylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate**

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g, 1.01 mmol), ethyl 4-[2-furylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.204g, 53%) was obtained as a white solid.

40 MS m/z 382 (M+1); HPLC RT 4.072 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

Ethyl 4-[3-furylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g, 1.01 mmol), ethyl 4-[3-furylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.217g, 56%) was obtained as a white solid.

5 MS *m/z* 382 (M+1); HPLC RT 4.091 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

Ethyl 4-[2-thienylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.4g, 1.01 mmol), ethyl 4-[2-thienylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.248g, 62%) was obtained as a yellow solid.

10 MS *m/z* 398 (M+1); HPLC RT 4.224 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

15 **Ethyl 4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate**

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.6g, 1.52 mmol), ethyl 4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.5g, 81%) was obtained as a yellow solid.

20 MS *m/z* 412 (M+1); HPLC RT 4.682 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

Ethyl 4-[2,4-difluorobenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

From ethyl 4-(bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.6g, 1.52 mmol), ethyl 4-[2,4-difluorobenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.222g, 35%) was obtained as a white solid.

25 MS *m/z* 428 (M+1); HPLC RT 4.618 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

4-[(Tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methanol

30 To a stirred solution of lithium aluminum hydride (95%, 3.3g, 81.84mmoles, 1eq) in dry ethyl ether (300ml) at 0 °C was added ethyl 4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (34g, 81.84mmoles, 1eq) in dry ethyl ether (50ml) dropwise via an addition funnel maintaining the internal reaction temperature below 5 °C. This was stirred at 0 °C for 1 hr. At 0 °C 3.5ml water was added dropwise very carefully and was then allowed to warm to room temperature. This was followed by the addition 3.5ml 5N NaOH and 10ml water. The mixture was stirred at room temperature for 2hrs. At this point a fine white precipitate formed. The reaction was filtered through Celite and the resulting aluminum salts were washed with 500ml EtOAc. The ether/EtOAc solution was concentrated *in vacuo* to 30.6g (100%) of titled alcohol.

35 ¹H NMR (CDCl₃) 400MHz δ 8.07(d, 2H, J=8.20 Hz), 7.72(d, 2H, J=8.20 Hz), 4.93(m, 4H), 4.78(t, 1H, J=3.32 Hz), 3.90(m, 1H), 3.61(m, 1H), 1.73(m, 6H),
40 TLC(30% EtOAc/Hexanes)= 0.20

The following intermediates were reduced as above for 4-[(Tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methanol.

{4-[(Tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

5 ¹H NMR (CDCl₃) 400MHz δ 8.07(d, 2H, J=8.20 Hz), 7.72(d, 2H, J=8.20 Hz), 4.93(m, 4H), 4.78(t, 1H, J=3.32 Hz), 3.90(m, 1H), 3.61(m, 1H), 1.73(m, 6H),
TLC(30% EtOAc/Hexanes)= 0.20

10 **{2-(4-Fluorophenyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazol-5-yl}methanol**

¹H NMR (CDCl₃) 400MHz δ 7.89(m, 2H), 7.09(m, 2H), 4.81(m, 5H), 3.84(m, 1H), 3.55(m, 1H), 1.67(m, 6H),

{2-Phenyl-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazol-5-yl}methanol

15 ¹H NMR (CDCl₃) 400MHz δ 7.96(m, 2H), 7.47(m, 3H), 4.92(m, 4H), 4.79(t, 1H, J=3.45 Hz), 3.91(m, 1H), 3.60(m, 1H), 1.73(m, 6H),

{2-(4-{trifluoromethyl}phenyl)-4-[(2-phenylethoxy)methyl]-1,3-thiazol-5-yl}methanol

20 ¹H (CDCl₃) 300MHz δ 7.99(d, 2H, J=8.79 Hz), 7.67(d, 2H, J=8.79 Hz), 7.26(m, 5H), 4.78(s, 2H), 4.71(s, 2H), 3.84(t, 2H, J=6.94 Hz), 2.95(t, 2H, J=6.94 Hz), 2.63(s, 1H),

{2-(4-{trifluoromethyl}phenyl)-4-(3-phenylpropyl)-1,3-thiazol-5-yl}methanol

25 ¹H NMR (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.79 Hz), 7.67(d, 2H, J=8.79 Hz), 7.23(m, 4H), 4.76(s, 2H), 2.84(t, 2H, 7.28 Hz), 2.67(t, 2H, 7.28 Hz), 2.12(m, 2H),

[4-benzyl-2-(4-{trifluoromethyl}phenyl)-1,3-thiazol-5-yl]methanol

30 ¹H (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.79 Hz), 7.65(d, 2H, J=8.79 Hz), 7.26(m, 5H), 4.78(s, 2H), 4.15(s, 2H),
TLC(20% EtOAc/Hexanes) R_f= 0.18

35 MS(ES⁺) M+H⁺= 350

[2-(4-{trifluoromethyl}phenyl)-4-(2-phenylethyl)-1,3-thiazol-5-yl]methanol

40 ¹H (CDCl₃) 300MHz δ 8.06(d, 2H, J=9.61 Hz), 7.70(d, 1H, J=9.48 Hz), 7.23(m, 4H), 7.06(m, 2H), 4.40(d, 2H, J=5.63 Hz), 3.07(s, 4H), 1.08(s, 1H),

45 TLC(20% EtOAc/Hexanes) R_f= 0.18
MS(ES⁺) M+H⁺= 364

[4-[(Benzyl)oxy]methyl]-2-(4-{trifluoromethyl}phenyl)-1,3-thiazol-5-yl]methanol

50 ¹H (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.79 Hz), 7.68(d, 2H, J=8.79 Hz), 7.35(m, 5H), 4.82(m, 4H), 4.68(s, 2H),

TLC(20% EtOAc/Hexanes) R_f = 0.14

[4-(4-Bromobenzyl)-2-(4-[trifluoromethyl]phenyl)-1,3-thiazol-5-yl]methanol

5 ^1H NMR (CDCl_3) 300MHz δ 7.99(d, 2H, $J=8.10$ Hz), 7.66(d, 2H, $J=8.10$ Hz), 7.40(d, 2H, $J=8.38$ Hz), 7.15(d, 2H, $J=8.38$ Hz), 4.81(s, 2H), 4.10(s, 2H),
TLC(20% EtOAc/Hexanes) R_f = 0.14

{4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

10 From ethyl 4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.096g, 0.21 mmol), {4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.09g, 100%) was obtained as a white solid.

^1H NMR (CDCl_3): δ 8.16 (d, 2 H), 7.73 (d, 2 H), 7.59 (d, 2 H), 7.44 (d, 2 H), 4.90 (d, 2 H), 4.26 (t, 2 H); MS m/z 418 (M+1).

15 **{4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol**

From ethyl 4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.123g 0.26 mmol), {4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.13g, 99%) was obtained as a white solid.

20 ^1H NMR (CDCl_3): 8.07 (d, 2 H), 7.71 (d, 2 H), 7.38 (d, 2 H), 7.18 (d, 2 H), 4.80 (d, 2 H), 4.20 (s, 2 H); MS m/z 434 (M+1).

{4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

25 From ethyl 4-[4-methoxybenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.16g, 0.38 mmol), {4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.06g, 40%) was obtained as a white solid.

MS m/z 380 (M+1); HPLC RT 3.552 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

30 From ethyl 4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.44g, 1.0 mmol), {4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.3g, 76%) was obtained as a white solid.

MS m/z 396 (M+1); HPLC RT 3.699 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

35

{4-(4-tert-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

From ethyl 4-[4-tert-butylbenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.24g, 0.54 mmol), {4-(4-tert-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.13g, 64%) was obtained as a white solid.

40 MS m/z 406 (M+1); HPLC RT 4.002 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

From ethyl 4-[3-thienylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.44g, 1.11 mmol), {4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.098g, 25%) was obtained as a yellow solid.

5 MS *m/z* 356 (M+1); HPLC RT 3.513 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

From ethyl 4-[2-furylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.204g, 0.53 mmol), {4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.162g, 89%) was obtained as a white solid.

10 MS *m/z* 340 (M+1); HPLC RT 3.382 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

From ethyl 4-[3-furylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.217g 0.57 mmol), {4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.180g, 88%) was obtained as a white solid.

15 MS *m/z* 340 (M+1); HPLC RT 3.385 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

From ethyl 4-[2-thienylmethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.248g, 0.62 mmol), {4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.186g, 87%) was obtained as a yellow solid.

20 MS *m/z* 356 (M+1); HPLC RT 3.528 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-[(4-Methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

25 From ethyl 4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.5g, 1.22 mmol), {4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.084g, 19%) was obtained as a yellow solid.

MS *m/z* 370 (M+1); HPLC RT 3.913 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

30

{4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

From ethyl 4-[2,4-difluorobenzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate (0.46g, 1.08 mmol), {4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.222g, 54%) was obtained as a white solid.

35

MS *m/z* 386 (M+1); HPLC RT 3.900 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

5-(Chloromethyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

To a 500-ml round-bottom flask equipped with a magnetic stir-bar, an addition funnel and a N_2 inlet was added 4-[(Tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-

5 yl)methanol (15g, 40.17mmoles, 1eq) and dry CH_2Cl_2 (150ml, 0.27M). Methanesulfonyl chloride (3.73ml, 48.20mmoles, 1.2eq) was added neat all at once followed by the dropwise addition of triethylamine (8.44ml, 60.26mmoles, 1.5eq) over 10 minutes. This solution was stirred at room temperature for 1 hr. The reaction was transferred to a separatory funnel and washed with water and brine. After the phases were separated the CH_2Cl_2 fraction was dried over Na_2SO_4 and the solvent was removed *in vacuo*. This yielded 15.74g (100%) of a brown oil. The crude product was used as is and required no purification.

1H NMR ($CDCl_3$) 300MHz δ 8.08(d, 2H, $J=8.20$ Hz), 7.73(d, 2H, $J=8.20$ Hz), 5.00(m, 3H), 4.80(m, 2H), 3.97(m, 1H), 3.64(m, 1H), 1.77(m, 6H),

TLC(25% EtOAc/Hexanes) R_f = 0.64

15

The following intermediates were also prepared using the above mesylation/chloride displacement procedure:

5-(Chloromethyl)-2-(4-fluorophenyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazole

20 1H NMR ($CDCl_3$) 400MHz δ 7.90(m, 2H), 7.11(m, 2H), 4.94(s, 2H), 4.91(d, 1H, $J=0.45$ Hz), 4.76(t, 1H, $J=3.39$ Hz), 4.72(d, 1H, $J=0.45$ Hz), 3.92(m, 1H), 3.58(m, 1H), 1.69(m, 6H),

[5-(Chloromethyl)-2-phenyl-1,3-thiazol-4-yl]methyl tetrahydro-2H-pyran-2-yl ether

25 1H NMR ($CDCl_3$) 300MHz δ 7.95(m, 2H), 7.47(m, 3H), 4.98(m, 3H), 4.80(m, 2H), 3.98(m, 1H), 3.63(m, 1H), 1.73(m, 6H),
TLC(25% EtOAc/Hexanes) R_f = 0.57

5-(Chloromethyl)-2-(4-(trifluoromethyl)phenyl)-4-[4-(3-thienyl)benzyl]-1,3-thiazole

30 1H NMR ($CDCl_3$) 300MHz δ 8.06(d, 2H, $J=8.23$ Hz), 7.71(d, 2H, $J=8.23$ Hz), 7.58(d, 2H, $J=8.23$ Hz), 7.41(m, 5H), 4.84(s, 2H), 4.26(s, 2H),
TLC(20% EtOAc/Hexanes) R_f = 0.66

4-[(Benzylxy)methyl]-5-(chloromethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

35 1H NMR ($CDCl_3$) 300MHz δ 8.03(d, 2H, $J=8.79$ Hz), 7.69(d, 2H, $J=8.79$ Hz), 7.37(m, 5H), 4.90(s, 2H), 4.77(s, 2H), 4.66(s, 2H)

4-Benzyl-5-(chloromethyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole

40 1H ($CDCl_3$) 300MHz δ 8.02(d, 2H, $J=8.79$ Hz), 7.67(d, 2H, $J=8.79$ Hz), 7.26(m, 5H), 4.77(s, 2H), 4.21(s, 2H),
TLC(20% EtOAc/Hexanes) R_f = 0.66

5-(Chloromethyl)-2-(4-(trifluoromethyl)phenyl)-4-(2-phenylethyl)-1,3-thiazole

1H (CDCl₃) 300MHz δ 8.05(d, 2H, J=8.79 Hz), 7.70(d, 2H, J=8.79 Hz), 7.22(m, 5H), 4.46(s, 2H), 3.09(s, 4H),
 TLC(20% EtOAc/Hexanes) R_f= 0.67

5

5-(Chloromethyl)-2-(4-(trifluoromethyl)phenyl)-4-[(2-phenylethoxy)methyl]-1,3-thiazole

1H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.79 Hz), 7.68(d, 2H, J=8.79 Hz), 7.26(m, 5H), 4.76(s, 2H), 4.74(s, 2H), 3.78(t, 2H, J=6.94 Hz), 2.94(t, 2H, J=6.94 Hz),
 TLC(20% EtOAc/Hexanes) R_f= 0.56

10

5-(Chloromethyl)-2-(4-(trifluoromethyl)phenyl)-4-(3-phenylpropyl)-1,3-thiazole

TLC(20% EtOAc/Hexanes) R_f= 0.63

4-(4-Bromobenzyl)-5-(chloromethyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole

15

1H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.10 Hz), 7.67(d, 2H, J=8.10 Hz), 7.42(d, 2H, J=8.38 Hz), 7.18(d, 2H, J=8.38 Hz), 4.77(s, 2H), 4.14(s, 2H),
 TLC(20% EtOAc/Hexanes) R_f= 0.66

4-([1,1'-Biphenyl]-4-ylmethyl)-5-(chloromethyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole

20

1H NMR (CDCl₃) 300MHz δ 8.07(d, 2H, J=8.23 Hz), 7.72(d, 2H, J=8.23 Hz), 7.57(m, 4H), 7.39(m, 5H), 4.85(s, 2H), 4.28(s, 2H),
 TLC(20% EtOAc/Hexanes) R_f= 0.69

5-(chloromethyl)-4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

25

From {4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.09g, 0.216 mmol), 5-(chloromethyl)-4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.087g, 93%) was obtained as a yellow oil and immediately taken on without purification.

5-(chloromethyl)-4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

30

From {4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.13g, 0.3 mmol), 5-(chloromethyl)-4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.135g, 100%) was obtained as a yellow oil and immediately taken on without purification.

5-(chloromethyl)-4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

35

From {4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.06g, 0.158 mmol), 5-(chloromethyl)-4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.08g, 100%) was obtained as a yellow oil and immediately taken on without purification.

5-(chloromethyl)-4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.3g, 0.76 mmol), 5-(chloromethyl)-4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.33g, 100%) was obtained as a yellow oil and immediately taken on without purification.

MS *m/z* 414 (M+1).

5

4-(4-*tert*-butylbenzyl)-5-(chloromethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-(4-*tert*-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.13g, 0.32 mmol), 4-(4-*tert*-butylbenzyl)-5-(chloromethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.151g, 100%) was obtained as a yellow oil and immediately taken on without purification.

10

MS *m/z* 424 (M+1).

5-(chloromethyl)-4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.098g, 0.28 mmol), 5-(chloromethyl)-4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.105g, 100%) was obtained as a yellow oil and immediately taken on without purification.

15

MS *m/z* 374 (M+1).

5-(chloromethyl)-4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.162g, 0.48 mmol), 5-(chloromethyl)-4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.097g, 57%) was obtained as a yellow oil and immediately taken on without purification.

MS *m/z* 358 (M+1).

5-(chloromethyl)-4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.18g, 0.53 mmol), 5-(chloromethyl)-4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.172g, 91%) was obtained as a yellow oil and immediately taken on without purification.

MS *m/z* 358 (M+1).

30

5-(chloromethyl)-4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.186g, 0.52 mmol), 5-(chloromethyl)-4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.185g, 95%) was obtained as a yellow oil and immediately taken on without purification.

MS *m/z* 374 (M+1).

35

5-(chloromethyl)-4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.084g, 0.23 mmol), 5-(chloromethyl)-4-[(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.123g, 100%) was obtained as a yellow oil and immediately taken on without purification.

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5-(chloromethyl)-4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

From {4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (0.222g, 0.58 mmol), 5-(chloromethyl)-4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.279g, 100%) was obtained as a yellow oil and immediately taken on without purification.

5 **Ethyl 2-methyl-2-phenoxypropanoate**

To a solution of potassium *t*-butoxide (1M in THF, 531ml, 0.531moles, 1eq) precooled to 0 °C (ice bath) was added phenol (50g, 0.531moles, 1eq) in dry THF (50ml) dropwise via an addition funnel over 20 minutes maintaining the internal temperature of the reaction below 5 degrees centigrade. Ethyl-2-bromoisobutyrate (70.14ml, 0.9eq, 0.478moles) in dry THF (20ml) was added dropwise over 10 minutes maintaining the internal reaction temperature below 5 °C. After the addition was complete, the ice bath was removed and the reaction was allowed to warm to room temperature. The reaction was brought to reflux and maintained at this reflux temperature for 8 hours. Following the cooling of the reaction to 0 °C the volatiles were removed *in vacuo*. The residue was then partitioned between EtOAc and 1N NaOH. The phases were separated and the organic phase was washed with 1N NaOH, H₂O, brine and dried over Na₂SO₄. After filtration the solution was concentrated under reduced pressure to yield 83g (75%) of clean title compound.

¹H NMR (CDCl₃) 400MHz δ 7.21(m, 2H), 6.95(t, 1H, J=7.41 Hz), 6.82(m, 2H), 4.21(q, 2H, J=7.13 Hz), 1.57(s, 6H), 1.22(t, 3H, J=7.13 Hz),

20 **Ethyl (2-ethylphenoxy)acetate**

To a stirred solution of 2-ethylphenol (5ml, 42.4mmoles, 1eq) in dry DMF (120ml, 0.35M) was added potassium carbonate (6.45g, 46.6mmoles, 1.1eq) and ethylbromoacetate (4.7ml, 42.2mmoles, 1eq) and heated to 60 °C overnight. After cooling to room temperature the reaction mixture was partitioned between ethyl ether and 1N NaOH. The phases were separated and the organic portion was washed twice with 1N NaOH, twice with H₂O, brine, dried over Na₂SO₄, filtered and concentrated *in vacuo* to yield 7.2g (82%) of product.

¹H NMR (CDCl₃) 400MHz δ 7.14(m, 2H), 6.92(t, 1H, J=8.24 Hz), 6.70(d, 1H, J=8.24 Hz), 4.62(s, 2H), 4.24(q, 2H, J=7.14 Hz), 2.70(q, 2H, J=7.51 Hz), 1.27(t, 3H, J=7.14 Hz), 1.21(t, 3H, J=7.51 Hz),

30

The following were compounds were made using the same alkylation procedure:

Ethyl (2-isopropylphenoxy)acetate

¹H NMR (CDCl₃) 400MHz δ 7.23(d, 1H, J=7.69 Hz), 7.11(t, 1H, J=7.69 Hz), 6.96(t, 1H, J=7.69 Hz), 6.70(d, 1H, J=7.69 Hz), 4.62(s, 2H), 4.25(q, 2H, J=7.14 Hz), 3.41(m, 1H), 1.26(m, 9H),

Ethyl (2-propylphenoxy)acetate

¹H NMR (CDCl₃) 400MHz δ 7.12(m, 2H), 6.90(t, 1H, J=8.24 Hz), 6.69(d, 1H, J=8.24 Hz), 4.61(s, 2H), 4.24(q, 2H, J=7.14 Hz), 2.64(t, 2H, J=7.33 Hz), 1.64(m, 2H), 1.27(t, 3H, J=7.14 Hz), 0.94(t, 3H, J=7.33 Hz),

Ethyl [4-(chlorosulfonyl)-2-ethylphenoxy]acetate

To a 250ml round-bottom flask containing chlorosulfonic acid (30ml) cooled to 0 °C was added ethyl (2-ethylphenoxy)acetate (7.2g, 34.6mmoles) dropwise. Once the addition was complete the ice-bath was removed and the reaction was allowed to warm to room temperature at which the reaction

5 was stirred for 3 hours. The reaction was then slowly added to ice and, once the excess chlorosulfonic acid was quenched, the mixture was diluted with CH_2Cl_2 (200ml). The phases were separated and the aqueous fraction was washed with CH_2Cl_2 twice. The combined organic fractions were dried over Na_2SO_4 and filtered and concentrated *in vacuo* to yield 7.2g (70%) of crude product. The crude product was used with no purification.

10 ^1H NMR (CDCl_3) 400MHz δ 7.84(m, 2H), 6.79(d, 1H, $J=8.24$ Hz), 4.75(s, 2H), 4.26(q, 2H, $J=7.14$ Hz), 2.77(q, 2H, $J=7.51$ Hz), 1.26(m, 6H),

The following were compounds were made using the same chlorosulfonation procedure:

15 **Ethyl [4-(chlorosulfonyl)-2-methylphenoxy]acetate**

^1H NMR (d6-DMSO) 300MHz δ 7.41(m, 2H), 6.79(d, 1H, $J=8.23$ Hz), 4.82(s, 2H), 4.16(q, 2H, $J=7.17$ Hz), 2.21(s, 3H), 1.21(t, 3H, $J=7.17$ Hz),

Ethyl 2-[4-(chlorosulfonyl)-2-methylphenoxy]propanoate

20 ^1H NMR (d6-DMSO) 300MHz δ 7.44(m, 1H), 7.39(dd, 1H, $J=8.23, 2.39$ Hz), 6.74(d, 1H, $J=8.23$ Hz), 4.96(q, 1H, $J=6.81$ Hz), 4.13(q, 2H, $J=7.08$ Hz), 2.20(s, 3H), 1.54(d, 3H, $J=6.81$ Hz), 1.18(t, 3H, $J=7.08$ Hz),

Ethyl 2-[4-(chlorosulfonyl)-2-isopropylphenoxy]propanoate

25 ^1H NMR (CDCl_3) 400MHz δ 7.81(m, 2H), 6.76(d, 1H, $J=8.42$ Hz), 4.87(q, 1H, $J=6.78$ Hz), 4.21(q, 2H, $J=7.14$ Hz), 3.40(m, 1H), 1.65(d, 3H, $J=6.78$ Hz), 1.24(m, 9H),

Ethyl [4-(chlorosulfonyl)-2-isopropylphenoxy]acetate

30 ^1H NMR (CDCl_3) 400MHz δ 7.84(m, 2H), 6.80(d, 1H, $J=8.42$ Hz), 4.75(s, 2H), 4.26(q, 2H, $J=7.14$ Hz), 3.42(m, 1H), 1.27(m, 9H),

Ethyl 2-[4-(chlorosulfonyl)-2-propylphenoxy]propanoate

35 ^1H NMR (CDCl_3) 400MHz δ 7.80(m, 2H), 6.75(d, 1H, $J=8.42$ Hz), 4.85(q, 1H, $J=6.78$ Hz), 4.21(q, 2H, $J=7.14$ Hz), 2.69(t, 2H, $J=7.51$ Hz), 1.66(m, 5H), 1.23(t, 3H, $J=7.14$ Hz), 0.95(t, 3H, $J=7.51$ Hz),

Ethyl [4-(chlorosulfonyl)-2-propylphenoxy]acetate

40 ^1H NMR (CDCl_3) 400MHz δ 7.83(m, 2H), 6.79(d, 1H, $J=8.42$ Hz), 4.73(s, 2H), 4.26(q, 2H, $J=7.14$ Hz), 2.70(t, 2H, $J=7.51$ Hz), 1.67(m, 2H), 1.29(t, 3H, $J=7.14$ Hz), 0.95(t, 3H, $J=7.51$ Hz),

Ethyl 2-[4-(chlorosulfonyl)-2-ethylphenoxy]propanoate

¹H NMR (CDCl₃) 400MHz δ 7.81(m, 2H), 6.75(d, 1H, J=8.42 Hz), 4.86(q, 1H, J=6.78 Hz), 4.21(q, 2H, J=7.08 Hz), 2.75(m, 2H), 1.68(d, 3H, J=6.78 Hz), 1.23(m, 6H),

Ethyl 2-[4-(chlorosulfonyl)phenoxy]-2-methylpropanoate

5 To a 3-L three-neck round-bottom flask equipped with a magnetic stir-bar, low temperature thermometer with thermometer adapter, addition funnel and a N₂ inlet was added ethyl 2-methyl-2-phenoxypropanoate (83g, 0.399moles, 1eq) and dry CH₂Cl₂ (1L, 0.4M). After cooling the reaction to 0 °C (ice bath) chlorosulfonic acid (26.5ml, 0.399moles, 1eq) in dry CH₂Cl₂ (50ml) was added dropwise over 30 minutes via addition funnel maintaining the internal temperature below 5°C. Following this 10 dropwise addition the reaction was allowed to stir at 0 °C for 3 hours. The reaction was monitored by HPLC and after 3 hours complete conversion was observed [(C-18, 3μm) 0%-95% Acetonitrile/Water over 8 minutes R_f= 2.96minutes]. At this point dry DMF (124ml, 4eq) was added slowly maintaining the internal temperature below 5°C. This was followed by the dropwise addition of thionyl chloride (43.77ml, 0.599moles, 1.5eq) in dry CH₂Cl₂ (50ml) over 25minutes maintaining the internal 15 temperature below 5°C. After stirring at 0 °C for 1.5 hours and monitoring by HPLC [(C-18, 3μm) 0%-95% Acetonitrile/Water over 8 minutes R_f= 5.97minutes] the reaction was allowed to warm to room temperature. The reaction mixture was then washed with 0.1N HCl and the phases were separated, with discarding the aqueous fraction. The organic fraction was washed with 0.1N HCl, H₂O, brine and dried over Na₂SO₄. The solution was filtered and concentrated *in vacuo* to yield 119.95g (98%) of 20 pure sulfonyl chloride.

¹H NMR (CDCl₃) 400MHz δ 7.89(d, 2H, J=9.31 Hz), 6.89(d, 2H, J=9.31 Hz), 4.21(q, 2H, J=7.16 Hz), 1.66(s, 6H), 1.20(t, 3H, J=7.16 Hz),

HPLC (C-18, 3μm) 0%-95% Acetonitrile/Water over 8 minutes R_f= 5.97minutes

25 **Ethyl 2-methyl-2-(4-sulfanylphenoxy)propanoate**

To a 3-L three-neck round-bottom flask equipped with an overhead mechanical stirrer, addition funnel and a N₂ inlet was added ethyl 2-[4-(chlorosulfonyl)phenoxy]-2-methylpropanoate (53g, 0.173moles, 1eq) and absolute EtOH (500ml). Tin powder (325mesh, 123.06g, 1.04moles, 6 eq) was added as a solid. The overhead stirrer was adjusted so that the rotor is as close as possible to the 30 bottom of the round-bottom flask and stirring speed was accelerated to a very high setting before adding the HCl to prevent the clumping of the tin metal. Hydrogen chloride (4N in dioxane, 300ml) was added dropwise over the course of 1 hour. The reaction mixture was refluxed for 4 hours at which point the hot ethanolic solution was poured into a 2-L Erlenmeyer flask containing CH₂Cl₂ (1L) and ice. After stirring for 10 minutes the biphasic mixture was filtered through Celite. After 35 transferring to a separatory funnel the phases were separated and the aqueous fraction was washed with CH₂Cl₂ (2x 100ml). The combined organic fractions were dried over Na₂SO₄, filtered and concentrated *in vacuo*. A bright yellow oil with a white precipitate suspended resulted. This yellow mixture was dissolved in a minimum amount of CH₂Cl₂ and filtered once again through Celite to yield 30g (75%) of a bright yellow oil.

40 ¹H NMR (CD₃OD) 300MHz δ 7.18(m, 2H), 6.73(d, 2H, J=8.00 Hz), 4.23(q, 2H, J=7.17 Hz), 3.69(s, 1H), 1.59(s, 6H), 1.26(t, 3H, J=7.17 Hz),

The following were compounds were made using the same reduction procedure:

Ethyl (2-methyl-4-sulfanylphenoxy)acetate

5 ^1H NMR (CDCl₃) 400MHz δ 7.15(m, 2H), 6.63(d, 1H, J=8.23 Hz), 4.64(s, 2H), 4.29(q, 2H, J=7.17 Hz), 3.36(s, 1H), 2.29(s, 3H), 1.33(t, 3H, J=7.17 Hz),

Ethyl 2-(2-methyl-4-sulfanylphenoxy)propanoate

10 ^1H NMR (CDCl₃) 400MHz δ 7.12(d, 1H, J=2.39 Hz), 7.04(dd, 1H, J=8.37, 2.39 Hz), 6.56(d, 1H, J=8.37 Hz), 4.67(q, 1H, J=6.72 Hz), 4.19(q, 2H, J=7.12 Hz), 3.31(s, 1H), 2.22(s, 3H), 1.61(d, 3H, J=6.72 Hz), 1.23(t, 3H, J=7.12 Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.60

Ethyl (2-ethyl-4-sulfanylphenoxy)acetate

15 ^1H NMR (CDCl₃) 400MHz δ 7.13(d, 1H, J=2.20 Hz), 7.08(dd, 1H, J=8.42, 2.38 Hz), 6.58(d, 1H, J=8.42 Hz), 4.59(s, 2H), 4.24(q, 2H, J=7.14 Hz), 3.33(s, 1H), 2.64(q, 2H, J=7.51 Hz), 1.28(t, 3H, J=7.14 Hz), 1.18(t, 3H, J=7.51 Hz),

Ethyl 2-(2-ethyl-4-sulfanylphenoxy)propanoate

20 ^1H NMR (CDCl₃) 400MHz δ 7.15(d, 1H, J=2.20 Hz), 7.07(dd, 1H, J=8.42, 2.20 Hz), 6.55(d, 1H, J=8.42 Hz), 4.74(q, 1H, J=6.78 Hz), 4.17(m, 2H), 3.32(s, 1H), 2.61(q, 2H, J=7.51 Hz), 1.61(d, 3H, J=6.59 Hz), 1.19(m, 6H),

25 The following four compounds were made in the same way and used without further purification.

Ethyl (2-propyl-4-sulfanylphenoxy)acetate

Ethyl 2-(2-propyl-4-sulfanylphenoxy)propanoate

Ethyl (2-isopropyl-4-sulfanylphenoxy)acetate

30 Ethyl 2-(2-isopropyl-4-sulfanylphenoxy)propanoate

Ethyl 2-methyl-2-[4-[(4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate

To a 250ml round-bottom flask equipped with a magnetic stir-bar and N₂ inlet was added 5-(chloromethyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (7.87g, 20.09mmoles, 1eq) and dry CH₃CN (100ml, 0.27M). Solid cesium carbonate (16.4g, 50.22mmoles, 2.5eq) was added all at once followed by the quick addition of ethyl 2-methyl-2-(4-sulfanylphenoxy)propanoate (5.79g, 24.11mmoles, 1.2eq) in dry CH₃CN (10ml). The reaction was allowed to stir at room temperature for 2 hours at which point the solvent was removed under reduced pressure. The resulting residue was partitioned between EtOAc and 1N NaOH. After the phases were separated the organic fraction was washed with H₂O, brine and dried over Na₂SO₄. After

filtration the volatiles were removed *in vacuo* to yield the titled compound in >100% yield. Sometimes because of the difficult separation between the thiophenol and the product, the crude product was carried forward without purification.

5 The following compounds were made using the same alkylation procedure. Where selectivity was an issue the alkylations were carried out below room temperature.:.

Ethyl 2-[2-methyl-4-[(2-phenyl-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate

10 ¹H NMR (CDCl₃) 300MHz δ 7.93(m, 2H), 7.44(m, 3H), 7.28(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.23, 2.39 Hz), 6.61(d, 1H, J=8.23 Hz), 4.72(m, 3H), 4.50(d, 1H, J .21 Hz), 4.32(s, 2H), 4.23(q, 2H, J=7.08 Hz), 3.93(m, 1H), 3.59(m, 1H), 2.26(s, 3H), 1.71(m, 9H), 1.28(t, 3H, J=7.08 Hz),

15 Ethyl 2-[2-methyl-4-[(4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.70(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.49, 2.39 Hz), 6.60(d, 1H, J=8.49 Hz), 4.73(m, 3H), 4.51(d, 1H, J=2.21 Hz), 4.32(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.93(m, 1H), 3.60(m, 1H), 2.27(m, 3H), 1.71(m, 9H), 1.27(t, 3H, J=7.17 Hz),

20 TLC(30% EtOAc/Hexanes)= 0.73

Ethyl 2-[4-[(2-(4-fluorophenyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy}propanoate

25 ¹H NMR (CDCl₃) 400MHz δ 7.88(m, 2H), 7.19(d, 1H, J=2.24 Hz), 7.08(m, 3H), 6.54(d, 1H, J=8.45 Hz), 4.65(m, 3H), 4.44(m, 1H), 4.24(s, 2H), 4.16(q, 2H, J=7.13 Hz), 3.86(m, 1H), 3.53(m, 1H), 2.21(s, 3H), 1.66(m, 9H), 1.20(t, 3H, J=7.13 Hz),

Ethyl {2-ethyl-4-[(4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}acetate

30 ¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.20(d, 1H, J=2.20 Hz), 7.15(dd, 1H, J=8.42, 2.20 Hz), 6.60(d, 1H, J=8.42 Hz), 4.63(m, 4H), 4.42(d, 1H, J .27 Hz), 4.24(m, 4H), 3.87(m, 1H), 3.54(m, 1H), 2.64(q, 2H, J=7.51 Hz), 1.66(m, 6H), 1.26(t, 3H, J=7.14 Hz), 1.15(t, 3H, J=7.51 Hz),

35 Ethyl 2-[2-ethyl-4-[(4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.17(d, 1H, J=2.38 Hz), 7.11(dd, 1H, J=8.42, 2.38 Hz), 6.56(d, 1H, J=8.42 Hz), 4.71(q, 1H, J=6.78 Hz), 4.66(t, 1H, J=3.39 Hz), 4.60(d, 1H, J .27 Hz), 4.41(d, 1H, J .27 Hz), 4.26(s, 2H), 4.16(q, 2H, J=7.14 Hz), 3.87(m, 1H), 3.54(m, 1H), 2.62(q, 2H, J=7.51 Hz), 1.60(m, 9H), 1.20(t, 3H, J=7.14 Hz), 1.15(t, 3H, J=7.51 Hz),

Ethyl {2-propyl-4-[({4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate

5 ^1H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.20 Hz), 7.64(d, 2H, J=8.20 Hz), 7.16(m, 2H), 6.59(d, 1H, J=8.24 Hz), 4.66(m, 1H), 4.61(m, 3H), 4.43(d, 1H, J .27 Hz), 4.23(m, 4H), 3.88(m, 1H), 3.54(m, 1H), 2.57(t, 2H, J=7.33 Hz), 1.68(m, 8H), 1.26(t, 3H, J=7.14 Hz), 0.88(t, 3H, J=7.33 Hz),

Ethyl 2-{2-propyl-4-[({4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}propanoate

10 ^1H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.17(d, 1H, J=2.38 Hz), 7.11(dd, 1H, J=8.42, 2.38 Hz), 6.55(d, 1H, J=8.42 Hz), 4.70(q, 1H, J=6.78 Hz), 4.66(t, 1H, J=3.39 Hz), 4.62(d, 1H, J .27 Hz), 4.43(d, 1H, J .27 Hz), 4.25(s, 2H), 4.15(q, 2H, J=7.14 Hz), 3.88(m, 1H), 3.54(m, 1H), 2.56(t, 2H, J=7.33 Hz), 1.60(m, 11H), 1.21(t, 3H, J=7.14 Hz), 0.88(t, 3H, J=7.33 Hz),

15 **Ethyl {2-isopropyl-4-[({4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate**

20 ^1H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.20(d, 1H, J=2.38 Hz), 7.15(dd, 1H, J=8.42, 2.38 Hz), 6.60(d, 1H, J=8.42 Hz), 4.65(t, 1H, J=3.48 Hz), 4.60(s, 2H), 4.56(d, 1H, J .09 Hz), 4.38(d, 1H, J .09 Hz), 4.23(m, 4H), 3.87(m, 1H), 3.53(m, 1H), 3.32(m, 1H), 1.66(m, 6H), 1.26(t, 3H, J=7.14 Hz), 1.15(d, 6H, J=6.96 Hz),

25 **Ethyl 2-[4-[({4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoate**

From 5-(chloromethyl)-4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.097g, 0.27 mmol), ethyl 2-[4-[({4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoate (0.091g, 60%) was obtained as a white solid.

^1H NMR (CDCl₃): δ 8.00 (d, 2 H), 7.68 (d, 2 H), 7.23 (m, 2 H), 6.62 (m 2 H), 6.30 (s, 1 H), 6.02 (s, 1 H), 4.76 (q, 1 H), 4.21 (q, 2 H), 4.17 (s, 2 H), 3.98 (s, 2 H), 2.29 (s, 3 H), 1.63 (s, 3 H), 1.24 (t, 3 H); MS *m/z* 562 (M+1).

30 **Ethyl 2-[4-[({4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoate**

From 5-(chloromethyl)-4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.172g, 0.48 mmol), ethyl 2-[4-[({4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoate (0.177g, 65%) was obtained as a white solid.

35 ^1H NMR (CDCl₃): δ 8.00 (d, 2 H), 7.70 (d, 2 H), 7.28 (m, 2 H), 7.16, (d, 1 H), 6.61 (m, 2 H), 6.31 (s, 1 H), 4.78 (q, 1 H), 4.27 (q, 2 H), 4.18 (s, 2 H), 3.68 (s, 2 H), 2.22 (s, 3 H), 1.68 (s, 3 H), 1.30 (t, 3 H); MS *m/z* 578 (M+1).

40 **Ethyl 2-[4-[({4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoate**

From 5-(chloromethyl)-4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.185g, 0.50 mmol), ethyl 2-[4-[({4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoate (0.21g, 73%) was obtained as a yellow solid.

5 ¹H NMR (CDCl₃): δ 8.01 (d, 2 H), 7.70 (d, 2 H), 7.20 (s, 1 H), 7.17 (m, 1 H), 6.93 (m, 1 H), 6.80 (s, 1 H), 6.60 (m, 2 H), 4.74 (q, 1 H), 4.20 (q, 2 H), 4.19 (s, 2 H), 4.17 (s, 2 H), 2.29 (s, 3 H), 1.67 (s, 3 H), 1.30 (t, 3 H); MS m/z 578 (M+1).

Ethyl 2-methyl-2-[4-[({4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoate

10 From 5-(chloromethyl)-4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.166g, 0.37 mmol) (prepared as in U16097-118-2), ethyl 2-methyl-2-[4-[({4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoate (0.210g, 87%) was obtained as a white solid.

15 MS m/z 656 (M+1); HPLC RT 4.862 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

Ethyl 2-methyl-2-[4-[({4-[4-methyl-2-thienyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoate

From 5-(chloromethyl)-4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.062g, 0.16 mmol), ethyl 2-methyl-2-[4-[({4-[4-methyl-2-thienyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoate (0.17g, 100%) was obtained as a yellow oil.

MS m/z 592 (M+1); HPLC RT 4.534 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

25 **Ethyl {2-methyl-4-[({4-[4-methyl-2-thienyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate**

From 5-(chloromethyl)-4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.062g, 0.16 mmol), ethyl {2-methyl-4-[({4-[4-methyl-2-thienyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate (0.13g, 100%) was obtained as a yellow oil.

30 MS m/z 578 (M+1); HPLC RT 4.338 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

Ethyl {4-[({4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetate

35 From 5-(chloromethyl)-4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.139g, 0.34 mmol), ethyl {4-[({4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetate, (0.1g, 49%) was obtained as a white solid.

MS m/z 594 (M+1); HPLC RT 4.337 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

40 **Ethyl {4-[({4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetate**

From 5-(chloromethyl)-4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.09g, 0.4 mmol) (prepared as in U17097-118-3), ethyl 4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxyacetate (0.160g, 68%) was obtained as a white solid.

5 MS *m/z* 588 (M+1); HPLC RT 4.631 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

2-Methyl-4-[(4-(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol

10 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.10 Hz), 7.63(d, 2H, J=8.10 Hz), 7.16(d, 1H, J=2.24 Hz), 7.06(dd, 1H, J=8.28, 2.24 Hz), 6.63(d, 1H, J=8.28 Hz), 4.64(t, 1H, J=3.53 Hz), 4.59(d, 1H, J=2.24 Hz), 4.40(d, 1H, J=2.24 Hz), 4.23(s, 2H), 3.86(m, 1H), 3.53(m, 1H), 2.16(s, 3H), 1.66(m, 6H),

2-Methyl-4-[(4-(4-trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol

15 From 5-(chloromethyl)-4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.82g, 0.19 mmol), 2-methyl-4-[(4-(4-trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.021g, 21%) was obtained as a white solid.

16 ¹H NMR (CDCl₃): δ 8.00 (d, 2H), 7.69 (d, 2H), 7.52 (d, 2H), 7.29 (d, 2H), 7.18 (s, 1H), 7.16 (d, 1H), 6.70 (d, 1H), 4.15 (s, 2H), 4.00 (s, 2H), 2.20 (s, 3H); MS *m/z* 540 (M+1).

2-Methyl-4-[(4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol

20 From 5-(chloromethyl)-4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.147g, 0.33 mmol), 2-methyl-4-[(4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.048g, 27%) was obtained as a white solid.

21 ¹H NMR (CDCl₃): δ 8.01 (d, 2H), 7.71 (d, 2H), 7.13 (m, 6H), 6.69 (d, 1H), 4.18 (s, 2H), 3.96 (s, 2H), 2.22 (s, 3H); MS *m/z* 556 (M+1).

30 4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol

From 5-(chloromethyl)-4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.063g, 0.16 mmol), 4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol (0.022g, 28%) was obtained as a white solid.

35 ¹H NMR (CDCl₃): δ 8.00 (d, 2H), 7.68 (d, 2H), 7.19 (s, 1H), 7.09 (m, 3H), 6.82 (d, 2H), 6.70 (d, 1H), 4.14 (s, 2H), 3.90 (s, 2H), 2.20 (s, 3H); MS *m/z* 502 (M+1).

2-Methyl-4-[(4-(4-methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol

From 5-(chloromethyl)-4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.33g, 0.78 mmol), 2-methyl-4-[({4-(4-methylsulfanyl)benzyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.296g, 72%) was obtained as a white solid.

MS *m/z* 518 (M+1).

5

4-[({4-(4-tert-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol

From 4-(4-*tert*-butylbenzyl)-5-(chloromethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.151g, 0.36 mmol), 4-[({4-(4-*tert*-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol (0.113g, 60%) was obtained as a white solid. MS *m/z* 528 (M+1).

10

2-Methyl-4-[({4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol

From 5-(chloromethyl)-4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (0.105g, 0.28 mmol), 2-methyl-4-[({4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.072g, 54%) was obtained as a yellow oil. MS *m/z* 478 (M+1).

15

The following three compounds were also prepared by the same route but were carried on without purification:

20

Ethyl 2-[2-isopropyl-4-[({4-[tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate

25

4-[({4-[Tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol

30

4-[({2-(4-Fluorophenyl)-4-[tetrahydro-2H-pyran-2-yloxy)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol

Ethyl 2-[2-methyl-4-[({4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate

35

From 2-methyl-4-[({4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.17g, 0.31 mmol), ethyl 2-[2-methyl-4-[({4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate (0.17g, 83%) was obtained as a white solid.

MS *m/z* 656 (M+1); HPLC RT 4.553 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

40

Methyl 2-methyl-4-[({4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetate

From 2-methyl-4-[({4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.17g, 0.31 mmol), methyl 2-methyl-4-[({4-[4-(trifluoromethoxy)benzyl]-2-[4-

(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}acetate (0.15g, 80%) was obtained as a white solid. MS *m/z* 628 (M+1); HPLC RT 4.398 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

5 **Ethyl 2-(2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}propanoate**

From 2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenol, ethyl 2-(2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}propanoate (0.225g, 0.47 mmol), (0.255g, 91%) was obtained as a yellow oil.

MS *m/z* 578 (M+1); HPLC RT 4.412 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

15 **Methyl {2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}acetate**

From 2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenol, methyl {2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}acetate (0.225g, 0.47 mmol), (0.259g, 94%) was obtained as a yellow oil.

20 MS *m/z* 550 (M+1); HPLC RT 4.243 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

Ethyl 2-[4-[(4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}-2-methylpropanoate

25 To a stirred solution of crude ethyl {2-methyl-4-[(4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}acetate (11.98g, 20.09mmoles, 1eq) in MeOH (100ml, 0.20M) was added as a solid *p*-toluenesulfonic acid (800mg, 25mol%) at room temperature. The reaction mixture was stirred at room temperature for 3 hours. The MeOH was removed *in vacuo* and the residue was purified by silica gel chromatography (15% EtOAc/Hexanes to 30% EtOAc/Hexanes) to yield 8g (78%) of pure titled alcohol.

¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.06 Hz), 7.65(d, 2H, J=8.06 Hz), 7.23(d, 2H, J=8.79 Hz), 6.73(d, 2H, J=8.79 Hz), 4.44(s, 2H), 4.17(m, 4H), 2.33(br s, 1H), 1.56(s, 6H), 1.21(t, 3H, J=7.14 Hz),

TLC(30% EtOAc/Hexanes) R_f = 0.32

35 **4-[(4-(Hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]-2-methylphenol**

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=7.93 Hz), 7.64(d, 2H, J=7.93 Hz), 7.15(d, 1H, J=2.07 Hz), 6.98(dd, 1H, J=8.10, 2.07 Hz), 6.62(d, 1H, J=8.10 Hz), 4.39(s, 2H), 4.11(s, 2H), 2.14(s, 3H),

40 **Ethyl 2-[4-[(4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]-2-propylphenoxy}propanoate**

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.06 Hz), 7.66(d, 2H, J=8.06 Hz), 7.13(d, 1H, J=2.38 Hz), 7.10(dd, 1H, J=8.24, 2.38 Hz), 6.55(d, 1H, J=8.24 Hz), 4.70(q, 1H, J=6.78 Hz), 4.43(s, 2H), 4.14(m, 4H), 2.55(t, 2H, J=7.33 Hz), 2.19(br s, 1H), 1.55(m, 5H), 1.21(t, 3H, J=7.14 Hz), 0.85(t, 3H, J=7.33 Hz),

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Methyl {4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-isopropylphenoxy}acetate

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.42 Hz), 7.66(d, 2H, J=8.42 Hz), 7.15(m, 2H), 6.60(d, 1H, J=8.79 Hz), 4.64(s, 2H), 4.38(s, 2H), 4.15(s, 2H), 3.77(s, 3H), 3.31(m, 1H), 2.03(br s, 1H), 1.12(d, 6H, J=6.96 Hz),

10

Ethyl 2-[4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-isopropylphenoxy}propanoate

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.66(d, 2H, J=8.24 Hz), 7.15(d, 1H, J=2.38 Hz), 7.11(dd, 1H, J=8.42, 2.38 Hz), 6.56(d, 1H, J=8.42 Hz), 4.73(q, 1H, J=6.78 Hz), 4.38(s, 2H), 4.14(m, 4H), 3.30(m, 1H), 1.60(d, 3H, J=6.78 Hz), 1.17(m, 9H),

15

Ethyl 2-[4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.23 Hz), 7.69(d, 2H, J=8.23 Hz), 7.22(d, 1H, J=2.39 Hz), 7.12(dd, 1H, J=8.23, 2.39 Hz), 6.59(d, 1H, J=8.23 Hz), 4.74(q, 1H, J=6.77 Hz), 4.51(s, 2H), 4.19(m, 4H), 3.68(br s, 1H), 2.26(s, 3H), 1.65(d, 3H, J=6.77 Hz), 1.26(t, 3H, J=7.17 Hz),

20

TLC(50% EtOAc/Hexanes) R_f = 0.40

25

The following four compounds were deprotected as above but used without further purification:

Ethyl 2-[4-[({2-(4-fluorophenyl)-4-(hydroxymethyl)-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoate

30

Ethyl {2-ethyl-4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetate

35

Ethyl 2-[2-ethyl-4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoate

Ethyl {4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}acetate

40

Ethyl {[(tert-butyl(diphenyl)silyl)oxy]acetate}

To a 500ml round-bottom flask equipped with a magnetic stir-bar, N₂ inlet was added ethyl glycolate (10g, 96.0mmoles, 1eq) and dry CH₂Cl₂ (200ml, 0.5M). This was followed by the addition of triethylamine (40ml, 0.288moles, 3eq) and DMAP (1.17g, 9.6mmoles, 10mol%) followed by the dropwise addition of TBDPSCI (27.5ml, 0.106moles, 1.1eq) in dry CH₂Cl₂ (20ml). The reaction mixture was allowed to stir at room temperature overnight at which time the reaction mixture was diluted with CH₂Cl₂ and washed with 1N HCl, saturated sodium bicarbonate, H₂O and dried over Na₂SO₄. After filtration the volatiles were removed *in vacuo* to yield 30g (91%) of titled compound.

5 ¹H NMR (CDCl₃) 300MHz δ 7.69(m, 4H), 7.39(m, 6H), 4.23(s, 2H), 4.14(q, 2H, J=7.14 Hz),
1.22(t, 3H, J=7.14 Hz), 1.08(m, 9H),
10 TLC(20% EtOAc/Hexanes) R_f= 0.67

{[tert-Butyl(diphenyl)silyl]oxy}acetic acid

To a stirred solution of ethyl {[tert-butyl(diphenyl)silyl]oxy}acetate (20g, 58.4mmoles, 1eq) in THF (100ml, 0.58M) was added 1N NaOH (6ml, 0.117moles, 2eq) and was allowed to stir at room temperature overnight. The THF was removed *in vacuo* and the residue was partitioned between CH₂Cl₂ and 1N HCl until a pH of 2 was reached. The phases were separated and the aqueous phase was washed twice with CH₂Cl₂. The combined organic fractions were dried over Na₂SO₄, filtered and concentrated *in vacuo* to yield 17g (90%) of product.

15 ¹H NMR (CDCl₃) 300MHz δ 7.68(m, 4H), 7.41(m, 6H), 4.22(s, 2H), 1.11(s, 9H),
20 TLC(5% MeOH/CH₂Cl₂) R_f= 0.37

{[tert-Butyl(diphenyl)silyl]oxy}acetyl chloride

In a 500ml round-bottom flask was mixed {[tert-butyl(diphenyl)silyl]oxy}acetic acid (17g, 54.0mmoles, 1eq), thionyl chloride (11.7g, 0.162moles, 3eq) and dry CH₂Cl₂ (120ml, 0.45M). This mixture was refluxed for 5 hours. After cooling to room temperature the volatiles were removed *in vacuo*. The resulting residue was washed twice with toluene and the toluene was subsequently removed *in vacuo* to remove excess thionyl chloride. This resulted in 18g (100%) of titled compound.

25 ¹H NMR (CDCl₃) 300MHz δ 7.72(m, 4H), 7.44(m, 6H), 4.54(s, 2H), 1.11(m, 9H),

30 **Ethyl 4-{{[tert-butyl(diphenyl)silyl]oxy}-3-oxobutanoate}**

To a 1-L round-bottom flask equipped with a magnetic stir-bar, addition funnel, low temperature thermometer with thermometer adapter and a N₂ inlet was added monoethyl malonate (14.53g, 0.11moles, 2eq) in dry THF (150ml, 0.73M) and 20mg of 2,2'-dipyridyl. After cooling the reaction mixture to -78°C (dry ice/acetone), *n*-BuLi (2.5M in Hexanes, 88ml, 0.22moles, 4eq) was added at a rate to maintain the internal temperature below -10°C. Once the addition was complete the reaction was allowed to warm to -10°C by removal of the cold bath. The reaction remained a light pink color; this designates that there was ample amount of *n*-BuLi to deprotonate the monoethyl malonate. (If the color had turned yellow the reaction would have had to have been re-cooled to -78°C and additional *n*-BuLi would have had to have been added followed by re-warming to -10°C.) At 35 this point the reaction mixture was cooled to -78°C followed by the dropwise addition of neat {[tert-Butyl(diphenyl)silyl]oxy}acetyl chloride (18g, 54mmoles, 1eq) over a period of 15 minutes maintaining the internal reaction temperature below -60°C. This was allowed to stir at -78°C for 10 minutes at

which point the reaction was transferred to a separatory funnel containing diethyl ether (900ml) and 1N HCl (450ml). This was agitated and vented until further gas evolution ceased after which the phases were separated and the organic phase was washed with saturated sodium bicarbonate, brine and dried over Na_2SO_4 . This was then filtered, concentrated *in vacuo* and purified by silica gel chromatography (5% EtOAc/Hexanes to 20% EtOAc/Hexanes) to yield 12.2g (60%) of product.

5 ^1H NMR (CDCl_3) 300MHz δ 7.63(m, 4H), 7.41(m, 6H), 4.19(m, 4H), 3.63(s, 2H), 1.27(t, 3H, J=7.14 Hz), 1.08(s, 9H),

TLC(20% EtOAc/Hexanes) R_f = 0.53

10 The following compounds were made according to W. Wierenga (J.Org.Chem. 1979 vol 44 p 310):

Ethyl 4-(4-bromophenyl)-3-oxobutanoate

15 ^1H NMR (CDCl_3) 300MHz δ 7.45(d, 2H, J=8.38 Hz), 7.10(d, 2H, J=8.38 Hz), 4.17(q, 2H, J=7.14 Hz), 3.79(s, 2H), 3.45(s, 2H), 1.26(t, 3H, J=7.14 Hz),

Ethyl 3-oxo-4-(2-phenylethoxy)butanoate

20 ^1H NMR (CDCl_3) 300MHz δ 7.26(m, 5H), 4.15(q, 4H, J=7.14 Hz), 3.71(t, 2H, J=6.94 Hz), 3.46(s, 2H), 2.92(t, 2H, J=6.94 Hz), 1.27(t, 3H, J=7.14 Hz),

Ethyl 3-oxo-6-phenylhexanoate

25 ^1H NMR (CDCl_3) 300MHz δ 7.22(m, 5H), 4.18(q, 2H, J=7.14 Hz), 3.39(s, 2H), 2.62(t, 2H, J=7.28 Hz), 2.53(t, 2H, J=7.28 Hz), 1.92(m, 2H), 1.25(t, 3H, J=7.14 Hz),

30 **Ethyl 3-oxo-4-phenylbutanoate**

^1H (CDCl_3) 300MHz 7.29(m, 5H), 4.18(q, 2H, J=7.14 Hz), 3.83(s, 2H), 3.44(s, 2H), 1.26(t, 3H, J=7.14 Hz),

TLC(20% EtOAc/Hexanes) R_f = 0.36

35 **Ethyl 4-(benzyloxy)-3-oxobutanoate**

^1H (CDCl_3) 300MHz 7.35(m, 5H), 4.59(s, 2H), 4.16(q, 4H, J=7.14 Hz), 3.53(s, 2H), 1.26(t, 3H, J=7.14 Hz),

Ethyl 3-oxo-5-phenylpentanoate

40 ^1H NMR (CDCl_3) 300MHz 7.24(m, 5H), 4.18(q, 2H, J=7.14 Hz), 3.42(s, 2H), 2.90(m, 4H), 1.27(t, 3H, J=7.14 Hz)

Ethyl 4-([tert-butyl(diphenyl)silyloxy]-2-chloro-3-oxobutanoate

To a 100ml round-bottom flask equipped with a magnetic stir-bar and a N_2 inlet was added ethyl 4-([tert-butyl(diphenyl)silyloxy]-3-oxobutanoate (4g, 10.4mmoles, 1eq) and dry CH_2Cl_2 (25ml, 0.42M) at room temperature. This was followed by the addition of neat sulfonyl chloride (0.833ml,

10.4mmoles, 1eq) and the reaction was allowed to stir overnight at room temperature. After dilution with CH_2Cl_2 (50ml) the reaction mixture was treated with saturated sodium bicarbonate until bubbling ceased. The phases were separated and the organic fraction was washed with sat. NaHCO_3 , brine and dried over Na_2SO_4 . After filtration and concentration *in vacuo* was yielded 4.2g (96%) of crude 5 chloride. This crude product was used without purification.

^1H NMR (CDCl_3) 400MHz δ 7.62(m, 4H), 7.41(m, 6H), 5.26(s, 1H), 4.40(m, 2H), 4.25(m, 2H), 1.28(t, 3H, $J=7.14$ Hz), 1.09(s, 9H),

10 The following intermediates were made by the same procedure as that used for Ethyl 4-[(tert-
butyl(diphenyl)silyloxy)-2-chloro-3-oxobutanoate

Ethyl 4-(benzyloxy)-2-chloro-3-oxobutanoate

^1H (CDCl_3) 300MHz δ 7.36(m, 5H), 5.10(s, 1H), 4.59(s, 2H), 4.32(s, 2H), 4.23(q, 2H, $J=7.23$ Hz), 1.28(t, 3H, $J=7.14$ Hz),

15 **Ethyl 2-chloro-3-oxo-6-phenylhexanoate**

^1H (CDCl_3) 300MHz δ 7.23(m, 5H), 4.75(s, 1H), 4.27(q, 2H, $J=7.14$ Hz), 2.72(t, 2H, $J=7.28$ Hz), 2.63(t, 2H, $J=7.28$ Hz), 1.97(m, 2H, $J=7.28$ Hz), 1.28(t, 3H, $J=7.14$ Hz),

20 **Ethyl 2-chloro-3-oxo-4-(2-phenylethoxy)butanoate**

^1H NMR (CDCl_3) 300MHz δ 7.25(m, 5H), 5.03(s, 1H), 4.29(m, 2H), 4.24(q, 2H, $J=7.14$ Hz), 3.73(t, 2H, $J=7.00$ Hz), 2.91(t, 2H, $J=7.00$ Hz), 1.29(t, 3H, $J=7.14$ Hz),

Ethyl 2-chloro-3-oxo-4-phenylbutanoate

25 ^1H (CDCl_3) 300MHz 7.29(m, 5H), 4.87(s, 1H), 4.23(m, 2H, $J=7.14$, 7.00, 7.14, 1.10, 1.24, 1.24, 0.82 Hz), 4.02(d, 2H, $J=4.53$ Hz), 1.31(t, 3H, $J=7.14$ Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.51

Ethyl 2-chloro-3-oxo-5-phenylpentanoate

30 ^1H (CDCl_3) 300MHz 7.25(m, 5H), 4.76(s, 1H), 4.25(q, 2H, $J=7.14$ Hz), 2.99(m, 4H), 1.31(t, 3H, $J=7.14$ Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.46

Ethyl 4-(4-bromophenyl)-2-chloro-3-oxobutanoate

35 ^1H NMR (CDCl_3) 300MHz δ 7.48(d, 2H, $J=8.51$ Hz), 7.10(d, 2H, $J=8.51$ Hz), 4.84(s, 1H), 4.25(q, 2H, $J=7.14$ Hz), 3.97(s, 2H), 1.29(t, 3H, $J=7.14$ Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.58

Ethyl 4-((tert-butyl(diphenyl)silyloxy)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole-5-carboxylate

5 To a 500ml round-bottom flask equipped with a magnetic stir-bar was mixed ethyl 4-({tert-butyl(diphenyl)silyl]oxy}-2-chloro-3-oxobutanoate (20.4g, 52.88mmoles, 1eq), 4-trifluoromethylthiobenzamide (12.2g, 59.5mmoles, 1.1eq), 1,2-dichloroethane (150ml, 0.44M) and H₂O (3ml). This mixture was refluxed for 12 hrs. After cooling to room temperature, the reaction mixture was diluted with CH₂Cl₂ (100ml) and washed with sat. NaHCO₃. Once the phases were separated, the organic phase was washed with water, brine and dried over Na₂SO₄. This was then filtered, concentrated *in vacuo* and purified via silica gel chromatography (5% EtOAc/Hexanes to 20% EtOAc/Hexanes) to yield 20.3g (76%) of the titled compound.

10 ¹H NMR (CDCl₃) 400MHz δ 8.07(d, 2H, J=8.37 Hz), 7.76(m, 4H), 7.71(d, 2H, J=8.37 Hz), 7.37(m, 6H), 5.24(s, 2H), 4.26(q, 2H, J=7.18 Hz), 1.29(t, 3H, J=7.18 Hz), 1.11(s, 9H),
TLC(20% EtOAc/Hexanes) R_f = 0.72

Ethyl 4-({[tert-butyl(diphenyl)silyl]oxy}methyl)-2-phenyl-1,3-thiazole-5-carboxylate

15 Analogous procedure to that used for ethyl 4-({[tert-butyl(diphenyl)silyl]oxy}methyl)-2-(4-trifluoromethyl)phenyl)-1,3-thiazole-5-carboxylate except thiobenzamide is the starting material.
¹H NMR (CDCl₃) 400MHz δ 7.98(m, 2H), 7.76(m, 4H), 7.40(m, 9H), 5.21(s, 2H), 4.23(q, 2H, J=7.12 Hz), 1.28(t, 3H, J=7.12 Hz), 1.08(s, 9H),
TLC(20% EtOAc/Hexanes) R_f = 0.67

20 The following intermediates were made using the same procedure as Ethyl 4-({[tert-butyl(diphenyl)silyl]oxy}methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole-5-carboxylate:

Ethyl 2-(4-(trifluoromethyl)phenyl)-4-[(2-phenylethoxy)methyl]-1,3-thiazole-5-carboxylate

25 ¹H (CDCl₃) 300MHz δ 8.10(d, 2H, J=8.79 Hz), 7.71(d, 2H, J=8.79 Hz), 7.23(m, 5H), 5.02(s, 2H), 4.37(q, 2H, J=7.14 Hz), 3.86(t, 2H, J=7.42 Hz), 2.99(t, 2H, J=7.42 Hz), 1.41(t, 3H, J=7.14 Hz),

Ethyl 2-(4-(trifluoromethyl)phenyl)-4-(3-phenylpropyl)-1,3-thiazole-5-carboxylate

30 ¹H (CDCl₃) 300MHz δ 8.08(d, 2H, J=8.24 Hz), 7.71(d, 2H, J=8.24 Hz), 7.23(m, 5H), 4.34(q, 2H, J=7.14 Hz), 3.25(t, 2H, J=7.69 Hz), 2.71(t, 2H, J=7.69 Hz), 2.13(m, 2H), 1.35(t, 3H, J=7.14 Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.49

Ethyl 4-[(benzyloxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole-5-carboxylate

35 ¹H (CDCl₃) 300MHz δ 8.12(d, 2H, J=8.79 Hz), 7.72(d, 2H, J=8.79 Hz), 7.35(m, 5H), 5.04(s, 2H), 4.74(s, 2H), 4.36(q, 2H, J=7.10 Hz), 1.38(t, 3H, J=7.14 Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.49

Ethyl 4-(4-bromobenzyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazole-5-carboxylate

¹H NMR (CDCl₃) 300MHz δ 8.07(d, 2H, J=8.79 Hz), 7.69(d, 2H, J=8.79 Hz), 7.43(d, 2H, J=8.51 Hz), 7.28(d, 2H, J=8.51 Hz), 4.51(s, 2H), 4.38(q, 2H, J=7.14 Hz), 1.39(t, 3H, J=7.14 Hz),
TLC(20% EtOAc/Hexanes) R_f = 0.66

Ethyl 4-(2-phenylethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate

¹H (CDCl₃) 300MHz δ 8.10(d, 2H, J=8.79 Hz), 7.72(d, 2H, J=8.79 Hz), 7.24(m, 5H), 4.37(q, 2H, J=7.14 Hz), 3.51(m, 2H), 3.10(m, 2H), 1.40(t, 3H, J=7.14 Hz),
MS(ES⁺) M+H= 405.99

5 **Ethyl 4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carboxylate**

¹H (CDCl₃) 300MHz δ 8.08(d, 2H, J=8.79 Hz), 7.70(d, 2H, J=8.79 Hz), 7.42(d, 2H, J=9.61 Hz), 7.23(m, 3H), 4.58(s, 2H), 4.38(q, 2H, J=7.14 Hz), 1.39(t, 3H, J=7.14 Hz),
TLC(20% EtOAc/Hexanes) R_f= 0.57
MS(ES⁺) M+H= 391.9

10

{4-({[tert-Butyl(diphenyl)silyl]oxy}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol

Analogous reduction as in the synthesis of 4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methanol.

15

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.03 Hz), 7.68(m, 6H), 7.41(m, 6H), 4.97(s, 2H), 4.84(s, 2H), 1.08(s, 9H),

[4-({[tert-Butyl(diphenyl)silyl]oxy}methyl)-2-phenyl-1,3-thiazol-5-yl]methanol

20

Analogous reduction as in the synthesis of 4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methanol.

¹H NMR (CDCl₃) 300MHz δ 7.90(m, 2H), 7.75(m, 4H), 7.45(m, 9H), 5.00(s, 2H), 4.86(s, 2H), 1.13(s, 9H),

25

The following compounds were all made by the general alkylation procedure with the appropriate thiols made above and the alkyl halides made from either {4-({[tert-Butyl(diphenyl)silyl]oxy}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol or {4-({[tert-Butyl(diphenyl)silyl]oxy}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol via the chlorides as described above.

30

Ethyl [4-({[4-({[tert-butyl(diphenyl)silyl]oxy}methyl)-2-phenyl-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetate

¹H NMR (CDCl₃) 400MHz δ 7.85(m, 2H), 7.68(m, 4H), 7.39(m, 9H), 7.12(d, 1H, J=2.39 Hz), 7.03(dd, 1H, J=8.37, 2.39 Hz), 6.50(d, 1H, J=8.37 Hz), 4.61(s, 2H), 4.55(s, 2H), 4.24(q, 2H, J=7.12 Hz), 4.10(s, 2H), 2.18(s, 3H), 1.26(t, 3H, J=7.12 Hz), 1.05(s, 9H),

35

TLC(20% EtOAc/Hexanes) R_f = 0.43

Ethyl 2-[4-({[4-({[tert-butyl(diphenyl)silyl]oxy}methyl)-2-phenyl-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]propanoate

40

¹H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.20 Hz), 7.67(m, 6H), 7.39(m, 6H), 7.11(d, 1H, J=2.39 Hz), 7.00(dd, 1H, J=8.37, 2.39 Hz), 6.49(d, 1H, J=8.37 Hz), 4.65(m, 2H), 4.17(q, 2H, J=7.18 Hz), 4.09(s, 2H), 2.17(s, 3H), 1.60(d, 3H, J=6.84 Hz), 1.21(t, 3H, J=7.18 Hz), 1.05(s, 9H),

TLC(20% EtOAc/Hexanes) R_f = 0.57

Ethyl 2-[4-({[4-({[tert-butyl(diphenyl)silyloxy)methyl]-2-phenyl-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]propanoate

5 ^1H NMR (CDCl₃) 400MHz δ 7.85(m, 2H), 7.68(m, 4H), 7.38(m, 9H), 7.11(d, 1H, J=2.39 Hz),
6.99(dd, 1H, J=8.55, 2.39 Hz), 6.49(d, 1H, J=8.55 Hz), 4.64(m, 3H), 4.16(q, 2H, J=7.12 Hz), 4.07(s,
2H), 2.17(s, 3H), 1.59(d, 3H, J=6.84 Hz), 1.20(t, 3H, J=7.12 Hz), 1.05(m, 9H),
TLC(20% EtOAc/Hexanes) R_f = 0.48

10 **Ethyl {4-[(3-({[tert-butyl(diphenyl)silyloxy)methyl]-5-[4-(trifluoromethyl)phenyl]-2-thienyl)methyl}sulfanyl]-2-methylphenoxy}acetate**

15 ^1H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.20 Hz), 7.66(m, 6H), 7.38(m, 6H), 7.11(d, 1H,
J=2.22 Hz), 7.03(dd, 1H, J=8.37, 2.22 Hz), 6.50(d, 1H, J=8.37 Hz), 4.63(s, 2H), 4.56(s, 2H), 4.23(q,
2H, J=7.12 Hz), 4.10(s, 2H), 2.18(s, 3H), 1.27(t, 3H, J=7.12 Hz), 1.04(s, 9H),
TLC(20% EtOAc/Hexanes) R_f = 0.50

Ethyl [4-({[4-(hydroxymethyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetate

20 ^1H NMR (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.23 Hz), 7.67(d, 2H, J=8.23 Hz), 7.22(d, 1H,
J=2.39 Hz), 7.14(dd, 1H, J=8.23, 2.39 Hz), 6.61(d, 1H, J=8.23 Hz), 4.63(s, 2H), 4.50(s, 2H), 4.26(q,
2H, J=7.17 Hz), 4.18(s, 2H), 2.83(s, 1H), 2.25(s, 3H), 1.29(t, 3H, J=7.17 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.51

(4-Bromophenyl)acetyl chloride

25 To a stirred solution of 4-bromophenylacetic acid (10g, 46.5mmoles, 1eq) in dry CH₂Cl₂
(100ml, 0.47M) was added thionyl chloride (20.2ml, 0.280moles, 6eq) and refluxed for 36 hours. After
cooling to room temperature the reaction was concentrated *in vacuo* to yield 10.86g (100%) of acid
chloride.

30 ^1H (CDCl₃) 300MHz δ 7.50(d, 2H, J=8.38 Hz), 7.14(d, 2H, J=8.38 Hz), 4.09(s, 2H),

4-Phenylbutanoyl chloride

1H NMR (CDCl₃) 300MHz δ 7.25(m, 5H), 2.90(t, 2H, J=7.28 Hz), 2.69(t, 2H, J=7.28 Hz),
2.05(m, 2H),

35 **(2-Phenylethoxy)acetyl chloride**

1H NMR (CDCl₃) 300MHz δ 7.26(m, 5H), 4.39(s, 2H), 3.80(t, 2H, J=6.94 Hz), 2.93(t, 2H,
J=6.94 Hz)

[4-({[1,1'-Biphenyl]-4-ylmethyl}-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methanol

40 To a stirred solution of [4-(4-Bromobenzyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-
yl]methanol (0.33g, 0.78mmoles, 1eq) in dry 1,2-dimethoxyethane (5ml, 0.16M) was added

tetrakis(triphenylphosphino) palladium I (0.45g, 0.39mmoles, 0.5eq) and stirred for 5 minutes at room temperature. Phenylboronic acid (0.143g, 1.2mmoles, 1.5eq) was then added followed by the addition of sodium carbonate (2M aqueous solution, 2.3ml, 4.68mmoles, 6eq). The reaction mixture was heated at 100 degrees centigrade for 13 hours at which point, after cooling to room temperature, the reaction was partitioned between EtOAc and water. After separation of the phases the organic phase was washed with brine, dried over anhydrous sodium sulfate, filtered, concentrated *in vacuo* to yield after purification by silica gel chromatography (CH₂Cl₂ to 2% MeOH/CH₂Cl₂) 268mg (80%) of product.

5 ¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.20 Hz), 7.67(d, 2H, J=8.20 Hz), 7.54(m, 4H), 7.36(m, 5H), 4.85(s, 2H), 4.22(s, 2H),

10

The following intermediate was prepared in using the same procedure:

{2-(4-(trifluoromethyl)phenyl)-4-[4-(3-thienyl)benzyl]-1,3-thiazol-5-yl}methanol

15 ¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.20 Hz), 7.67(d, 2H, J=8.20 Hz), 7.52(d, 2H, J=8.37 Hz), 7.35(m, 5H), 4.84(s, 2H), 4.20(s, 2H),

The following compounds were made by the same procedure for phenol alkylation.

Ethyl {2-methyl-4-[{(4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetate

20 To a 250ml round-bottom flask equipped with a magnetic stir-bar and N₂ inlet was added 5-(chloromethyl)-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (7.87g, 20.09mmoles, 1eq) and dry CH₃CN (100ml, 0.27M). Solid cesium carbonate (16.4g, 50.22mmoles, 2.5eq) was added all at once followed by the quick addition of ethyl 2-methyl-2-(4-sulfanylphenoxy)propanoate (5.79g, 24.11mmoles, 1.2eq) in dry CH₃CN (10ml). The reaction was allowed to stir at room temperature for 2 hours at which point the solvent was removed under reduced pressure. The resulting residue was partitioned between EtOAc and 1N NaOH. After the phases were separated the organic fraction was washed with H₂O, brine and dried over Na₂SO₄. After filtration the volatiles were removed *in vacuo* to yield the titled compound in >100% yield. Because of 25 the difficult separation between the thiophenol and the product, the crude product was carried forward without purification.

4-[(4-(Bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenol

30 ¹H NMR (CDCl₃) 400MHz δ 8.01(d, 2H, J=8.10 Hz), 7.68(d, 2H, J=8.10 Hz), 7.17(d, 1H, J=2.41 Hz), 7.08(dd, 1H, J=8.10, 2.41 Hz), 6.67(d, 1H, J=8.10 Hz), 4.63(s, 2H), 4.14(s, 2H),

Ethyl 2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}2-methylpropanoate

35 To a 500ml 3-neck round-bottom flask equipped with a magnetic stir-bar, low temperature thermometer with thermometer adapter, addition funnel and N₂ inlet was added ethyl 2-{4-[(4-hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}-2-

methylpropanoate (16g, 31.28mmoles, 1eq) and dry CH_2Cl_2 (120ml, 0.26M) and cooled to 0 °C. Methanesulfonyl chloride (2.91ml, 37.54mmoles, 1.2eq) was added neat all at once. Triethylamine (6.6ml, 46.92mmoles, 1.5eq) was added dropwise over 20 minutes maintaining the internal temperature below 5°C and was stirred at 0 °C for 30 minutes. The reaction mixture was transferred to a separatory funnel and washed with H_2O , brine and the organic fraction was dried over Na_2SO_4 . After filtration the solvent was removed under reduced pressure to yield the corresponding mesylate in quantitative yield. Because of the unstable nature of the mesylate, the product was not characterized and was progressed onto the next stage without purification.

To the crude mesylate dissolved in dry THF (200ml, 0.16M) was added 4-methoxyphenyl piperazine (13g, 62.56mmoles, 2eq) and the reaction mixture was refluxed for 5 hours. After cooling to room temperature the solvent was removed *in vacuo* to yield a yellow solid residue. The residue was washed with a minimal amount of EtOAc and filtered through Celite to remove the 4-methoxyphenyl piperazine hydrochloride salt. The EtOAc was removed *in vacuo* and the resulting solid was filtered through a "plug" of silica gel using 30% EtOAc/Hexanes to yield 20.37g (95%) of a light-yellow solid.

¹H NMR (CDCl_3) 400MHz δ 7.96(d, 2H, $J=8.24$ Hz), 7.63(d, 2H, $J=8.24$ Hz), 7.27(d, 2H, $J=8.79$ Hz), 6.87(d, 2H, $J=9.16$ Hz), 6.80(d, 2H, $J=9.16$ Hz), 6.74(d, 2H, $J=8.79$ Hz), 4.32(s, 2H), 4.17(q, 2H, $J=7.14$ Hz), 3.73(s, 3H), 3.56(s, 2H), 3.06(br s, 4H), 2.59(br s, 4H), 1.55(s, 6H), 1.21(t, 3H, $J=7.14$ Hz),

HPLC (C-18, 3μm) 0%-95% Acetonitrile/Water over 8 minutes $R_f= 6.06$ minutes

The follow intermediates were made using the same alkylation conditions:

4-[(4-(4-Methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol

¹H NMR (CDCl_3) 400MHz δ 7.94(d, 2H, $J=8.10$ Hz), 7.64(d, 2H, $J=8.10$ Hz), 7.16(d, 1H, $J=2.07$ Hz), 7.07(dd, 1H, $J=8.10, 2.07$ Hz), 6.86(m, 2H), 6.80(d, 2H, $J=8.97$ Hz), 6.66(d, 1H, $J=8.10$ Hz), 4.27(s, 2H), 3.73(s, 3H), 3.59(s, 2H), 3.15(br s, 4H), 2.67(br s, 4H), 2.16(s, 3H),

Ethyl [2-methyl-4-([2-(4-(trifluoromethyl)phenyl)-4-(4-morpholinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxyacetate

¹H NMR (CDCl_3) 300MHz δ 8.02(d, 2H, $J=8.23$ Hz), 7.69(d, 2H, $J=8.23$ Hz), 7.27(m, 1H), 7.17(dd, 1H, $J=8.23, 2.39$ Hz), 6.62(d, 1H, $J=8.23$ Hz), 4.64(s, 2H), 4.36(s, 2H), 4.25(q, 2H, $J=7.17$ Hz), 3.72(t, 4H, $J=4.51$ Hz), 3.53(s, 2H), 2.48(t, 4H, $J=4.51$ Hz), 2.27(s, 3H), 1.32(t, 3H, $J=7.17$ Hz),

TLC(50% EtOAc/Hexanes) $R_f= 0.26$

Ethyl [4-((4-benzyl-1-piperazinyl)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxyacetate

¹H NMR (CDCl_3) 300MHz δ 8.02(d, 2H, $J=8.76$ Hz), 7.68(d, 2H, $J=8.76$ Hz), 7.31(m, 6H), 7.16(dd, 1H, $J=8.49, 2.39$ Hz), 6.62(d, 1H, $J=8.49$ Hz), 4.63(s, 2H), 4.35(s, 2H), 4.27(q, 2H, $J=7.17$ Hz), 3.54(m, 4H), 2.51(br s, 8H), 2.27(s, 3H), 1.32(t, 3H, $J=7.17$ Hz),

TLC(50% EtOAc/Hexanes)= 0.19

Ethyl 2-[4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]2-methylphenoxy}propanoate

5 ¹H NMR (CDCl₃) 400MHz δ7.99(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.23(d, 1H, J=2.39 Hz), 7.13(dd, 1H, J=8.37, 2.39 Hz), 6.89(d, 2H, J=9.23 Hz), 6.83(d, 2H, J=9.23 Hz), 6.57(d, 1H, J=8.37 Hz), 4.70(q, 1H, J=6.84 Hz), 4.34(s, 2H), 4.17(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.58(s, 2H), 3.09(m, 4H), 2.63(m, 4H), 2.24(s, 3H), 1.62(d, 3H, J=6.84 Hz), 1.21(t, 3H, J=7.18 Hz),
TLC(30% EtOAc/Hexanes)= 0.29

10 **Ethyl {2-methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-phenyl-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}acetate**

15 ¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.70(d, 2H, J=8.23 Hz), 7.29(m, 3H), 7.21(dd, 1H, J=8.23, 2.39 Hz), 6.92(m, 3H), 6.63(d, 1H, J=8.23 Hz), 4.64(s, 2H), 4.38(s, 2H), 4.27(q, 2H, J=7.17 Hz), 3.63(s, 2H), 3.21(m, 4H), 2.66(m, 4H), 2.28(s, 3H), 1.32(t, 3H, J=7.17 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.52

Ethyl 4-[(5-[(4-(2-ethoxy-2-oxoethoxy)-3-methylphenyl)sulfanyl)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-4-yl]methyl-1-piperazinecarboxylate

20 ¹H NMR (CDCl₃) 300MHz δ 7.99(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.25(m, 1H), 7.17(dd, 1H, J=8.49, 2.12 Hz), 6.61(d, 1H, J=8.49 Hz), 4.64(s, 2H), 4.28(m, 4H), 4.14(t, 2H, J=7.17 Hz), 3.50(m, 6H), 2.44(br s, 4H), 2.26(s, 3H), 1.29(t, 3H, J=7.17 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.17

25 **Ethyl {2-methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-phenyl-1-piperidinyl)methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}acetate**

30 ¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.70(d, 2H, J=8.23 Hz), 7.27(m, 7H), 6.64(d, 1H, J=8.49 Hz), 4.64(s, 2H), 4.41(s, 2H), 4.28(q, 2H, J=7.17 Hz), 3.60(s, 2H), 3.02(m, 2H), 2.53(m, 1H), 2.30(s, 3H), 2.18(m, 2H), 1.84(m, 4H), 1.32(t, 3H, J=7.17 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.48

Ethyl {2-methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-methyl-1-piperidinyl)methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}acetate

35 ¹H NMR (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.28(d, 1H, J=2.39 Hz), 7.19(dd, 1H, J=8.49, 2.39 Hz), 6.62(d, 1H, J=8.49 Hz), 4.64(s, 2H), 4.38(s, 2H), 4.28(q, 2H, J=7.17 Hz), 3.51(s, 2H), 2.84(m, 4H), 2.28(s, 3H), 2.02(m, 4H), 1.61(m, 4H), 1.30(m, 8H), 0.94(d, 3H, J=6.11 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.36

40 **Ethyl {2-methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-(2-methylphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}acetate**

¹H (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.25(m, 1H), 7.16(m, 3H), 6.98(m, 2H), 6.60(d, 1H, J=8.55 Hz), 4.60(s, 2H), 4.37(s, 2H), 4.23(q, 2H, J=7.12 Hz), 3.59(s, 2H), 2.93(s, 4H), 2.63(s, 4H), 2.29(s, 3H), 2.24(s, 3H), 1.27(t, 5H, J=7.12 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.73

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Ethyl [4-({[4-({4-methoxyphenyl)-1-piperazinyl]methyl}-2-(4-[trifluoromethyl]phenyl)-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy]acetate

¹H (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.65(d, 2H, J=8.20 Hz), 7.24(dd, 1H, J=2.39 Hz), 7.16(dd, 1H, J=8.37, 2.39 Hz), 6.84(m, 4H), 6.58(d, 1H, J=8.37 Hz), 4.59(s, 2H), 4.33(s, 2H), 4.23(q, 2H, J=7.18 Hz), 3.75(s, 3H), 3.57(s, 2H), 3.07(m, 4H), 2.62(s, 4H), 2.24(s, 3H), 1.27(t, 3H, J=7.18 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.44

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Ethyl (2-methyl-4-[(2-(4-[trifluoromethyl]phenyl)-4-[4-(3-methylphenyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy]acetate

¹H (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.24(m, 1H), 7.14(m, 2H), 6.70(s, 3H), 6.59(d, 1H, J=8.55 Hz), 4.60(s, 2H), 4.33(s, 2H), 4.23(q, 2H, J=7.12 Hz), 3.57(s, 2H), 3.16(br s, 4H), 2.62(br s, 4H), 2.30(s, 3H), 2.24(s, 3H), 1.26(t, 3H, J=7.12 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.64

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Ethyl (2-methyl-4-[(2-(4-[trifluoromethyl]phenyl)-4-[4-(4-methylphenyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy]acetate

¹H (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.65(d, 2H, J=8.20 Hz), 7.24(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.37, 2.39 Hz), 7.04(d, 2H, J=8.55 Hz), 6.82(d, 2H, J=8.55 Hz), 6.58(d, 1H, J=8.37 Hz), 4.60(s, 2H), 4.32(s, 2H), 4.23(q, 2H, J=7.12 Hz), 3.57(s, 2H), 3.10(s, 4H), 2.60(s, 4H), 2.26(s, 3H), 2.23(s, 3H), 1.26(t, 3H, J=7.12 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.64

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Ethyl [4-({[4-(2-furoyl)-1-piperazinyl]methyl}-2-(4-[trifluoromethyl]phenyl)-1,3-thiazol-5-yl]methylsulfanyl]-2-methylphenoxy]acetate

¹H (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.20 Hz), 7.65(d, 2H, J=8.20 Hz), 7.46(m, 1H), 7.22(d, 1H, J=2.39 Hz), 7.13(dd, 1H, J=8.37, 2.39 Hz), 6.96(d, 1H, J=3.42 Hz), 6.59(d, 1H, J=8.37 Hz), 6.46(m, 1H), 4.62(s, 2H), 4.29(s, 2H), 4.21(q, 2H, J=7.12 Hz), 3.80(s, 4H), 3.50(s, 2H), 2.53(s, 4H), 2.23(s, 3H), 1.26(t, 3H, J=7.18 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.06

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Ethyl (2-methyl-4-[(2-(4-[trifluoromethyl]phenyl)-4-[4-(2-pyridinyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy]acetate

¹H (CDCl₃) 400MHz δ 8.16(m, 1H), 7.98(d, 2H, J=8.20 Hz), 7.63(d, 2H, J=8.20 Hz), 7.45(s, 1H), 7.25(d, 1H, J=2.22 Hz), 7.15(dd, 1H, J=8.37, 2.22 Hz), 6.56(m, 3H), 4.60(s, 2H), 4.33(s, 2H), 4.21(q, 2H, J=7.12 Hz), 3.53(m, 6H), 2.57(s, 4H), 2.23(s, 3H), 1.27(t, 3H, J=7.12 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.06

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TLC(50% EtOAc/Hexanes) R_f = 0.25

Ethyl [4-({[4-({4-(4-chlorobenzyl)-1-piperazinyl}methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetate

5 ^1H (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.20 Hz), 7.64(d, 2H, J=8.20 Hz), 7.25(m, 5H), 7.13(dd, 1H, J=8.37, 2.39 Hz), 6.58(d, 1H, J=8.37 Hz), 4.59(s, 2H), 4.31(s, 2H), 4.22(q, 2H, J=7.18 Hz), 3.52(s, 2H), 3.42(s, 2H), 2.48(br s, 8H), 2.20(s, 3H), 1.26(t, 3H, J=7.18 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.23

10 **Ethyl [4-({[4-({4-(4-acetylphenyl)-1-piperazinyl}methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetate**

15 ^1H (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.20 Hz), 7.85(d, 2H, J=9.06 Hz), 7.66(d, 2H, J=8.20 Hz), 7.24(d, 1H, J=2.39 Hz), 7.16(dd, 1H, J=8.20, 2.39 Hz), 6.84(d, 2H, J=9.06 Hz), 6.58(d, 1H, J=8.20 Hz), 4.61(s, 2H), 4.31(s, 2H), 4.22(q, 2H, J=7.18 Hz), 3.58(s, 2H), 3.33(br s, 4H), 2.60(br s, 4H), 2.50(m, 3H), 2.24(s, 3H), 1.27(t, 3H, J=7.18 Hz),
TLC(50% EtOAc/Hexanes) R_f = 0.23

Ethyl [4-({[4-({4-(2-hydroxyethyl)-1-piperazinyl}methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetate

20 ^1H (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.20 Hz), 7.64(d, 2H, J=8.20 Hz), 7.23(d, 1H, J=2.22 Hz), 7.14(dd, 1H, J=8.37, 2.22 Hz), 6.58(d, 1H, J=8.37 Hz), 4.60(s, 2H), 4.30(s, 2H), 4.22(q, 2H, J=7.12 Hz), 3.60(m, 2H), 3.50(s, 2H), 2.94(s, 1H), 2.53(m, 10H), 2.23(s, 3H), 1.26(t, 3H, J=7.12 Hz),

25 **Ethyl (2-methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(3-pyridinylmethyl)amino]methyl)-1,3-thiazol-5-yl]methyl)sulfanyl)phenoxy]acetate**

^1H (CDCl₃) 400MHz δ 8.55(m, 1H), 8.50(m, 1H), 7.98(d, 2H, J=8.20 Hz), 7.71(m, 1H), 7.65(m, 2H), 7.24(m, 1H), 7.17(m, 1H), 7.10(m, 1H), 6.55(d, 1H, J=8.37 Hz), 4.58(s, 2H), 4.22(q, 2H, J=7.12 Hz), 4.12(s, 2H), 3.77(s, 2H), 3.63(s, 2H), 2.64(br s, 1H), 2.21(s, 3H), 1.27(t, 3H, J=7.12 Hz),

30 **Ethyl (4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl)-2-phenyl-1,3-thiazol-5-yl]methyl)sulfanyl)phenoxy]acetate**

35 ^1H NMR (CDCl₃) 400MHz δ 7.88(m, 2H), 7.40(m, 3H), 7.25(d, 1H, J=2.39 Hz), 7.17(dd, 1H, J=8.37, 2.39 Hz), 6.89(d, 2H, J=9.06 Hz), 6.81(d, 2H, J=9.06 Hz), 6.58(d, 1H, J=8.37 Hz), 4.59(s, 2H), 4.32(s, 2H), 4.23(q, 2H, J=7.12 Hz), 3.74(s, 3H), 3.56(s, 2H), 3.06(m, 4H), 2.62(m, 4H), 2.24(s, 3H), 1.27(t, 3H, J=7.12 Hz),

Ethyl 2-(4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl)-2-phenyl-1,3-thiazol-5-yl]methyl)sulfanyl)phenoxy]propanoate

40 ^1H NMR (CDCl₃) 400MHz δ 7.88(m, 2H), 7.40(m, 3H), 7.25(d, 1H, J=2.39 Hz), 7.14(dd, 1H, J=8.37, 2.39 Hz), 6.89(d, 2H, J=9.40 Hz), 6.82(d, 2H, J=9.40 Hz), 6.57(d, 1H, J=8.37 Hz), 4.70(q, 1H,

J=6.84 Hz), 4.32(s, 2H), 4.17(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.56(s, 2H), 3.08(m, 4H), 2.63(m, 4H), 2.23(m, 3H), 1.61(d, 3H, J=6.84 Hz), 1.25(t, 3H, J=7.18 Hz),

Ethyl 2-methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(pentylamino)methyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxyacetate

5 ¹H (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.20 Hz), 7.65(d, 2H, J=8.20 Hz), 7.20(d, 1H, J=2.39 Hz), 7.12(dd, 1H, J=8.37, 2.39 Hz), 6.58(d, 1H, J=8.37 Hz), 4.60(s, 2H), 4.23(q, 2H, J=7.18 Hz), 4.18(s, 2H), 3.64(s, 2H), 2.58(t, 2H, J=6.92 Hz), 2.22(s, 3H), 1.50(m, 2H), 1.28(m, 7H), 0.87(t, 3H, J=6.92 Hz),

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Ethyl 2-{4-[(4-(4-hydroxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl-2-methylphenoxypropanoate

10 ¹H NMR (CDCl₃) 300MHz δ 8.08(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.17(dd, 1H, J=8.28, 2.21 Hz), 6.87(d, 2H, J=8.83 Hz), 6.73(d, 2H, J=8.83 Hz), 6.66(d, 1H, J=8.28 Hz), 4.83(q, 1H, J=6.81 Hz), 4.34(s, 2H), 4.15(q, 2H, J=7.08 Hz), 3.47(s, 2H), 3.00(t, 4H, J=4.83 Hz), 2.57(t, 4H, J=4.83 Hz), 2.20(s, 3H), 1.57(d, 3H, J=6.81 Hz), 1.20(t, 3H, J=7.08 Hz),

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Ethyl 2-{4-[(4-(3,4-dimethoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl-2-methylphenoxypropanoate

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20 ¹H NMR (CDCl₃) 300MHz δ 8.06(d, 2H, J=8.28 Hz), 7.72(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.16(dd, 1H, J=8.55, 2.21 Hz), 6.82(d, 1H, J=8.55 Hz), 6.64(m, 2H), 6.47(dd, 1H, J=8.55, 2.21 Hz), 4.81(q, 1H, J=6.99 Hz), 4.34(s, 2H), 4.14(q, 2H, J=7.17 Hz), 3.82(s, 3H), 3.77(s, 3H), 3.52(s, 2H), 3.07(t, 4H, J=4.55 Hz), 2.63(t, 4H, J=4.55 Hz), 2.20(s, 3H), 1.57(d, 3H, J=6.99 Hz), 1.18(t, 3H, J=7.17 Hz),

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Ethyl 2-(4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-phenyl-1,3-thiazol-5-yl)methylsulfanylphenoxy-2-methylpropanoate

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25 ¹H NMR (CDCl₃) 400MHz δ 7.87(m, 2H), 7.40(m, 3H), 7.28(d, 2H, J=8.89 Hz), 6.89(d, 2H, J=9.23 Hz), 6.82(d, 2H, J=9.23 Hz), 6.75(d, 2H, J=8.89 Hz), 4.33(s, 2H), 4.19(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.56(s, 2H), 3.09(br s, 4H), 2.65(br s, 4H), 1.58(s, 6H), 1.20(t, 3H, J=7.18 Hz),

Ethyl 4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanylphenoxyacetate

35

35 ¹H NMR (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.35(d, 2H, J=8.89 Hz), 6.88(d, 2H, J=9.40 Hz), 6.83(m, 4H), 4.58(s, 2H), 4.34(s, 2H), 4.24(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.57(s, 2H), 3.08(m, 4H), 2.63(m, 4H), 1.27(t, 3H, J=7.18 Hz),

Ethyl 2-(4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanylphenoxypropanoate

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40 ¹H NMR (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.32(d, 2H, J=8.89 Hz), 6.89(d, 2H, J=9.23 Hz), 6.83(d, 2H, J=9.23 Hz), 6.79(d, 2H, J=8.89 Hz), 4.70(q, 1H,

J=6.78 Hz), 4.33(s, 2H), 4.16(q, 2H, J=7.09 Hz), 3.75(s, 3H), 3.57(s, 2H), 3.08(m, 4H), 2.63(m, 4H), 1.60(d, 3H, J=6.78 Hz), 1.24(t, 3H, J=7.09 Hz),

Ethyl 2-[4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)propanoate

5 ¹H NMR (CDCl₃) 400MHz δ 7.87(m, 2H), 7.39(m, 3H), 7.32(d, 2H, J=8.85 Hz), 6.87(d, 2H, J=9.06 Hz), 6.82(d, 2H, J=9.06 Hz), 6.77(d, 2H, J=8.85 Hz), 4.69(q, 1H, J=6.78 Hz), 4.31(s, 2H), 4.18(q, 2H, J=7.12 Hz), 3.75(s, 3H), 3.54(s, 2H), 3.08(m, 4H), 2.62(m, 4H), 1.59(d, 3H, J=6.78 Hz), 1.20(t, 3H, J=7.12 Hz),

10 **Ethyl 2-[4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy)2-methylpropanoate**

15 ¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.41 Hz), 7.13(t, 1H, J=8.10 Hz), 7.07(dd, 1H, J=8.45, 2.41 Hz), 6.53(m, 2H), 6.43(t, 1H, J=2.24 Hz), 6.38(dd, 1H, J=8.10, 2.24 Hz), 4.31(s, 2H), 4.18(q, 2H, J=7.16 Hz), 3.75(s, 3H), 3.55(s, 2H), 3.16(t, 4H, J=4.83 Hz), 2.58(t, 4H, J=4.83 Hz), 2.17(s, 3H), 1.57(s, 6H), 1.22(t, 3H, J=7.16 Hz),

20 **Ethyl 2-[4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy)2-methylpropanoate**

25 ¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.62(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.41 Hz), 7.06(dd, 1H, J=8.45, 2.41 Hz), 6.91(m, 2H), 6.83(m, 2H), 6.53(d, 1H, J=8.45 Hz), 4.30(s, 2H), 4.13(q, 2H, J=7.16 Hz), 3.55(s, 2H), 3.06(t, 4H, J=4.66 Hz), 2.57(t, 4H, J=4.66 Hz), 2.15(s, 3H), 1.55(s, 6H), 1.21(t, 3H, J=7.16 Hz),

30 **Ethyl 2-[4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)2-methylpropanoate**

35 ¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.10 Hz), 7.63(d, 2H, J=8.10 Hz), 7.26(d, 2H, J=8.79 Hz), 7.14(t, 1H, J=8.28 Hz), 6.74(d, 2H, J=8.79 Hz), 6.51(dd, 1H, J=8.28, 2.24 Hz), 6.43(t, 1H, J=2.24 Hz), 6.39(dd, 1H, J=8.28, 2.24 Hz), 4.31(s, 2H), 4.16(q, 2H, J=7.07 Hz), 3.74(s, 3H), 3.54(s, 2H), 3.17(t, 4H, J=4.66 Hz), 2.58(t, 4H, J=4.66 Hz), 1.56(s, 6H), 1.20(t, 3H, J=7.07 Hz),

40 **Ethyl 2-[4-[(4-(4-chlorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)2-methylpropanoate**

45 ¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.10 Hz), 7.63(d, 2H, J=8.10 Hz), 7.27(d, 2H, J=8.79 Hz), 7.15(d, 2H, J=9.14 Hz), 6.80(d, 2H, J=9.14 Hz), 6.73(d, 2H, J=8.79 Hz), 4.30(s, 2H), 4.17(q, 2H, J=7.16 Hz), 3.54(s, 2H), 3.12(t, 4H, J=4.74 Hz), 2.57(m, 4H), 1.55(s, 6H), 1.17(t, 3H, J=7.16 Hz),

48 **Ethyl 2-[4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)2-methylpropanoate**

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.28 Hz), 7.83(d, 2H, J=9.14 Hz), 7.62(d, 2H, J=8.28 Hz), 7.26(d, 2H, J=8.62 Hz), 6.82(d, 2H, J=9.14 Hz), 6.73(d, 2H, J=8.62 Hz), 4.29(s, 2H), 4.17(q, 2H, J=7.07 Hz), 3.53(s, 2H), 3.32(t, 4H, J=4.66 Hz), 2.57(br s, 4H), 2.48(s, 3H), 1.55(s, 6H), 1.17(t, 3H, J=7.07 Hz),

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Ethyl 2-[4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]sulfanyl]phenoxy-2-methylpropanoate

¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.26(d, 2H, J=8.79 Hz), 6.87(d, 2H, J=9.14 Hz), 6.81(d, 2H, J=9.14 Hz), 6.73(d, 1H, J=8.79 Hz), 4.32(s, 2H), 4.17(q, 2H, J=7.16 Hz), 3.73(s, 3H), 3.54(s, 2H), 3.06(t, 4H, J=4.83 Hz), 2.60(br s, 4H), 1.55(s, 6H), 1.20(t, 3H, J=7.16 Hz),

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Ethyl 2-(2-(4-fluorophenyl)-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl]sulfanyl]phenoxy-2-methylpropanoate

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¹H NMR (CDCl₃) 400MHz δ 7.84(m, 2H), 7.20(d, 1H, J=2.20 Hz), 7.07(m, 3H), 6.87(d, 2H, J=9.16 Hz), 6.81(d, 2H, J=9.16 Hz), 6.54(d, 1H, J=8.42 Hz), 4.29(s, 2H), 4.19(q, 2H, J=7.14 Hz), 3.75(s, 3H), 3.54(s, 2H), 3.07(t, 4H, J=4.76 Hz), 2.61(br s, 4H), 2.15(s, 3H), 1.54(s, 6H), 1.21(t, 3H, J=7.14 Hz),

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Ethyl 2-[4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-(4-fluorophenyl)-1,3-thiazol-5-yl]sulfanyl]phenoxy-2-methylpropanoate

¹H NMR (CDCl₃) 400MHz δ 7.84(m, 4H), 7.20(d, 1H, J=2.38 Hz), 7.07(m, 3H), 6.83(d, 2H, J=9.16 Hz), 6.53(d, 1H, J=8.42 Hz), 4.28(s, 2H), 4.18(q, 2H, J=7.14 Hz), 3.53(s, 2H), 3.33(t, 4H, J=4.58 Hz), 2.58(br s, 4H), 2.48(s, 3H), 2.16(s, 3H), 1.58(s, 6H), 1.23(t, 3H, J=7.14 Hz),

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Ethyl 2-(2-(4-fluorophenyl)-4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl]sulfanyl]phenoxy-2-methylpropanoate

¹H NMR (CDCl₃) 400MHz δ 7.85(m, 2H), 7.20(d, 1H, J=2.38), 7.14(t, 1H, J=8.24 Hz), 7.07(m, 3H), 6.53(m, 2H), 6.44(t, 1H, J=2.29 Hz), 6.39(dd, 1H, J=8.06, 2.38 Hz), 4.29(s, 2H), 4.19(q, 2H, J=7.14 Hz), 3.76(s, 3H), 3.53(s, 2H), 3.17(t, 4H, J=4.67 Hz), 2.59(br s, 4H), 2.16(s, 3H), 1.55(s, 6H), 1.21(t, 3H, J=7.14 Hz),

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Ethyl 4-[(5-[(4-(2-ethoxy-1,1-dimethyl-2-oxoethoxy)-3-methylphenyl)sulfanyl]methyl)-2-(4-fluorophenyl)-1,3-thiazol-4-yl]methyl]-1-piperazinecarboxylate

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¹H NMR (CDCl₃) 400MHz δ 7.82(m, 2H), 7.18(d, 1H, J=2.38 Hz), 7.06(m, 3H), 6.53(d, 1H, J=8.61 Hz), 4.25(s, 2H), 4.19(q, 2H, J=7.14 Hz), 4.10(q, 2H, J=7.08 Hz), 3.45(m, 6H), 2.40(br s, 4H), 2.16(s, 3H), 1.55(s, 6H), 1.21(m, 6H),

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Ethyl 2-[4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]sulfanyl]phenoxy-2-methylpropanoate

¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.24 Hz), 7.07(dd, 1H, J=8.45, 2.24 Hz), 6.86(d, 2H, J=9.14 Hz), 6.80(d, 2H, J=9.14 Hz), 6.53(d, 1H, J=8.45 Hz), 4.31(s, 2H), 4.17(q, 2H, J=7.16 Hz), 3.72(s, 3H), 3.55(s, 2H), 3.05(t, 4H, J=4.66 Hz), 2.59(t, 4H, J=4.66 Hz), 2.16(s, 3H), 1.55(s, 6H), 1.20(t, 3H, J=7.16 Hz),

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Ethyl 2-[4-[(4-[4-(4-acetylphenyl)-1-piperazinyl]methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}-2-methylpropanoate

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.10 Hz), 7.82(d, 2H, J=8.97 Hz), 7.62(d, 2H, J=8.10 Hz), 7.19(d, 1H, J=2.41 Hz), 7.06(dd, 1H, J=8.45, 2.41 Hz), 6.82(d, 2H, J=8.97 Hz), 6.52(d, 1H, J=8.45 Hz), 4.27(s, 2H), 4.16(q, 2H, J=7.07 Hz), 3.53(s, 2H), 3.29(t, 4H, J=4.66 Hz), 2.54(t, 4H, J=4.66 Hz), 2.47(s, 3H), 2.14(s, 3H), 1.55(s, 6H), 1.18(t, 3H, J=7.07 Hz),

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Ethyl 2-[4-[(4-[4-acetyl-1-piperazinyl]methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}-propanoate

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¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.14(dd, 1H, J=8.23, 2.39 Hz), 6.59(d, 1H, J=8.23 Hz), 4.73(q, 1H, J=6.72 Hz), 4.30(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.65(t, 2H, J=4.65 Hz), 3.54(s, 2H), 3.45(t, 2H, J=4.65 Hz), 2.48(t, 4H, J=4.65 Hz), 2.26(s, 3H), 2.09(s, 3H), 1.65(d, 3H, J=6.72 Hz), 1.25(dd, 3H, J=7.17 Hz),

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2-Methyl-2-[4-[(4-[4-(phenoxy carbonyl)-1-piperazinyl]methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy}-propanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.28 Hz), 7.65(d, 2H, J=8.28 Hz), 7.33(m, 2H), 7.26(d, 2H, J=8.79 Hz), 7.17(t, 1H, J=7.59 Hz), 7.06(d, 2H, J=7.59 Hz), 6.74(d, 2H, J=8.79 Hz), 4.32(s, 2H), 4.18(q, 2H, J=7.07 Hz), 3.61(m, 6H), 2.51(br s, 4H), 1.57(s, 6H), 1.20(t, 3H, J=7.07 Hz),

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tert-Butyl 4-[(5-((4-(2-ethoxy-1,1-dimethyl-2-oxoethoxy)phenyl)sulfanyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl]methyl}-1-piperazinecarboxylate

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¹H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.24(d, 2H, J=8.79 Hz), 6.72(d, 2H, J=8.79 Hz), 4.29(s, 2H), 4.18(q, 2H, J=7.07 Hz), 3.44(m, 6H), 2.43(br s, 4H), 1.56(s, 6H), 1.42(s, 9H), 1.19(t, 3H, J=7.07 Hz),

Ethyl 2-methyl-2-[4-[(4-(2-pyrazinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy}-propanoate

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¹H NMR (CDCl₃) 400MHz δ 8.12(s, 1H), 8.04(s, 1H), 7.94(d, 2H, J=8.28 Hz), 7.83(s, 1H), 7.65(d, 2H, J=8.28 Hz), 7.26(d, 2H, J=8.79 Hz), 6.73(d, 2H, J=8.79 Hz), 4.32(s, 2H), 4.17(q, 2H, J=7.07 Hz), 3.62(m, 6H), 2.64(br s, 4H), 1.56(s, 6H), 1.18(t, 3H, J=7.07 Hz),

Ethyl 2-[4-[(4-(2-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy}-2-methylpropanoate

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¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.27(d, 2H, J=8.97 Hz), 6.98(m, 1H), 6.90(m, 2H), 6.83(m, 1H), 6.73(d, 2H, J=8.97 Hz), 4.35(s, 2H), 4.17(q, 2H,

J=7.07 Hz), 3.83(s, 3H), 3.60(s, 2H), 3.11(br s, 4H), 2.72(br s, 4H), 1.58(s, 6H), 1.18(t, 3H, J=7.07 Hz),

tert-Butyl 4-({5-({[4-(2-methoxy-2-oxoethoxy)-3-methylphenyl]sulfanyl}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methyl)-1-piperazinecarboxylate

5 ¹H NMR (CDCl₃) 400MHz δ 7.90(d, 2H, J=8.28 Hz), 7.58(d, 2H, J=8.28 Hz), 7.16(d, 1H, J=2.24 Hz), 7.08(dd, 1H, J=8.45, 2.24 Hz), 6.52(d, 1H, J=8.45 Hz), 4.56(s, 2H), 4.20(s, 2H), 3.70(s, 3H), 3.44(s, 2H), 3.36(t, 4H, J=4.48 Hz), 2.32(br s, 4H), 2.17(s, 3H), 1.38(s, 9H),

10 **Ethyl 2-{2-methyl-4-[(4-[(4-(4-pyridinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoate**

15 ¹H NMR (CDCl₃) 300MHz δ 8.28(d, 2H, J=6.37 Hz), 8.02(d, 2H, J=8.23 Hz), 7.69(d, 2H, J=8.23 Hz), 7.28(d, 1H, J=2.39 Hz), 7.16(dd, 1H, J=8.49, 2.39 Hz), 6.68(d, 2H, J=6.37 Hz), 6.60(d, 1H, J=8.49 Hz), 4.73(q, 1H, J=6.72 Hz), 4.32(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.59(s, 2H), 3.34(t, 4H, J=5.04 Hz), 2.58(t, 4H, J=5.04 Hz), 2.26(s, 3H), 1.65(d, 3H, J=6.72 Hz), 1.25(t, 3H, J=7.08 Hz),

Ethyl 2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl}2-methylphenoxy}propanoate

20 ¹H NMR (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.23(d, 1H, J=2.39 Hz), 7.13(dd, 1H, J=8.37, 2.39 Hz), 6.89(d, 2H, J=9.23 Hz), 6.83(d, 2H, J=9.23 Hz), 6.57(d, 1H, J=8.37 Hz), 4.70(q, 1H, J=6.84 Hz), 4.34(s, 2H), 4.17(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.58(s, 2H), 3.09(m, 4H), 2.63(m, 4H), 2.24(s, 3H), 1.62(d, 3H, J=6.84 Hz), 1.21(t, 3H, J=7.18 Hz),
TLC(30% EtOAc/Hexanes)= 0.29

25 **Ethyl 2-{4-[(4-(2,4-difluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl}2-methylphenoxy}propanoate**

30 ¹H NMR (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.17(dd, 1H, J=8.28, 2.21 Hz), 6.86(m, 3H), 6.61(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.36(s, 2H), 4.21(q, 2H, J=7.17 Hz), 3.62(s, 2H), 3.06(t, 4H, J=4.55 Hz), 2.67(t, 4H, J=4.55 Hz), 2.27(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.26(t, 3H, J=7.17 Hz),

Ethyl 2-{2-methyl-4-[(4-(4-(trifluoromethoxy)phenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl}phenoxy}propanoate

35 ¹H NMR (CD₃OD) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.63(d, 2H, J=8.24 Hz), 7.19(s, 1H), 7.10(dd, 1H, J=8.42, 2.20 Hz), 7.03(d, 2H, J=9.16 Hz), 6.85(d, 2H, J=9.16 Hz), 6.57(d, 1H, J=8.42 Hz), 4.73(q, 1H, J=6.78 Hz), 4.27(s, 2H), 4.07(m, 2H), 3.41(s, 2H), 3.03(br s, 4H), 2.48(br s, 4H), 2.13(s, 3H), 1.51(d, 3H, J=6.78 Hz), 1.11(t, 3H, J=7.14 Hz),

40 **Ethyl 2-{4-[(4-(4-ethoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl}2-methylphenoxy}propanoate**

5 ¹H NMR (CD₃OD) 400MHz δ 8.01(d, 2H, J=8.28 Hz), 7.70(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.24 Hz), 7.11(dd, 1H, J=8.45, 2.24 Hz), 6.86(d, 2H, J=9.14 Hz), 6.76(d, 2H, J=9.14 Hz), 6.61(d, 1H, J=8.45 Hz), 4.77(q, 1H, J=6.72 Hz), 4.29(s, 2H), 4.10(q, 2H, J=7.16 Hz), 3.91(q, 2H, J=6.98 Hz), 3.40(s, 2H), 2.96(t, 4H, J=4.83 Hz), 2.50(t, 4H, J=4.83 Hz), 2.14(s, 3H), 1.52(d, 3H, J=6.72 Hz), 1.30(t, 3H, J=6.98 Hz), 1.14(t, 3H, J=7.16 Hz),

Ethyl 2-[2-methyl-4-[{(4-[4-(4-propoxypyhenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy}propanoate

10 ¹H NMR (CD₃OD) 400MHz δ 7.96(d, 2H, J=8.10 Hz), 7.63(d, 2H, J=8.10 Hz), 7.18(s, 1H), 7.09(d, 1H, J=8.45 Hz), 6.81(d, 2H, J=8.97 Hz), 6.73(d, 2H, J=8.97 Hz), 6.56(d, 1H, J=8.45 Hz), 4.71(q, 1H, J=6.47 Hz), 4.25(s, 2H), 4.06(q, 2H, J=7.07 Hz), 3.76(t, 2H, J=7.41 Hz), 3.39(s, 2H), 2.92(br s, 4H), 2.48(br s, 4H), 2.12(s, 3H), 1.67(m, 2H), 1.49(d, 3H, J=6.47 Hz), 1.11(t, 3H, J=7.07 Hz), 0.94(t, 3H, J=7.41 Hz),

15 **Ethyl 2-[4-[{(4-[4-(4-isopropoxypyhenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]2-methylphenoxy}propanoate**

10 ¹H NMR (CD₃OD) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.18(d, 1H, J=2.24 Hz), 7.09(dd, 1H, J=8.45, 2.24 Hz), 6.81(d, 2H, J=9.14 Hz), 6.73(d, 2H, J=9.14 Hz), 6.57(d, 1H, J=8.45 Hz), 4.71(q, 1H, J=6.78 Hz), 4.36(m, 1H), 4.24(s, 2H), 4.06(q, 2H, J=7.16 Hz), 3.39(s, 2H), 2.92(t, 4H, J=4.57 Hz), 2.47(t, 4H, J=4.57 Hz), 2.11(s, 3H), 1.48(d, 3H, J=6.78 Hz), 1.19(d, 6H, J=6.21 Hz), 1.11(t, 3H, J=7.16 Hz),

Ethyl 4-[{5-[(4-(2-ethoxy-1,1-dimethyl-2-oxoethoxy)phenyl]sulfanyl}methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl]methyl-1-piperazinecarboxylate

25 ¹H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.24(m, 2H), 6.72(d, 2H, J=8.79 Hz), 4.30(s, 2H), 4.18(q, 2H, J=7.07 Hz), 4.10(q, 2H, J=7.13 Hz), 3.49(m, 6H), 2.46(br s, 4H), 1.58(s, 6H), 1.21(m, 6H),

30 **Ethyl 4-[{5-[(4-(2-methoxy-2-oxoethoxy)-3-methylphenyl]sulfanyl}methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl]methyl-1-piperazinecarboxylate**

10 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.10 Hz), 7.64(d, 2H, J=8.10 Hz), 7.20(d, 1H, J=2.21 Hz), 7.13(dd, 1H, J=8.45, 2.21 Hz), 6.57(d, 1H, J=8.45 Hz), 4.62(s, 2H), 4.30(s, 2H), 4.10(q, 2H, J=7.16 Hz), 3.77(s, 3H), 3.49(m, 6H), 2.45(br s, 4H), 2.21(s, 3H), 1.23(t, 3H, J=7.16 Hz),

35 **Methyl {4-[{(4-[4-(3-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}acetate**

10 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.24 Hz), 7.14(m, 2H), 6.57(d, 1H, J=8.45 Hz), 6.49(dd, 1H, J=8.10, 2.20 Hz), 6.40(s, 2H), 4.60(s, 2H), 4.33(s, 2H), 3.76(s, 6H), 3.59(s, 2H), 3.21(br s, 4H), 2.68(br s, 4H), 2.21(s, 3H),

Methyl {4-[({4-[{4-(4-acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetate

5 ^1H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=8.28 Hz), 7.82(d, 2H, J=8.97 Hz), 7.61(d, 2H, J=8.28 Hz), 7.20(d, 1H, J=2.24 Hz), 7.13(dd, 1H, J=8.45, 2.24 Hz), 6.80(d, 2H, J=8.97 Hz), 6.55(d, 1H, J=8.45 Hz), 4.57(s, 2H), 4.27(s, 2H), 3.73(s, 3H), 3.52(s, 2H), 3.27(t, 4H, J=4.83 Hz), 2.54(t, 4H, J=4.83 Hz), 2.45(s, 3H), 2.20(s, 3H),

Methyl {4-[({4-[{4-(2-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetate

10 ^1H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.10 Hz), 7.65(d, 2H, J=8.10 Hz), 7.21(m, 1H), 7.15(dd, 1H, J=8.45, 2.07 Hz), 6.98(br s, 1H), 6.89(m, 2H), 6.83(d, 1H, J=7.41 Hz), 6.57(d, 1H, J=8.45 Hz), 4.61(s, 2H), 4.35(s, 2H), 3.83(s, 3H), 3.75(s, 3H), 3.61(s, 2H), 3.11(br s, 4H), 2.70(br s, 4H), 2.22(s, 3H),

Methyl {2-methyl-4-[({4-[{4-(2-pyrazinyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate

15 ^1H NMR (CDCl₃) 400MHz δ 8.07(s, 1H), 7.99(m, 1H), 7.94(d, 2H, J=8.10 Hz), 7.77(d, 1H, J=2.59 Hz), 7.60(d, 2H, J=8.10 Hz), 7.20(d, 1H, J=2.24Hz), 7.12(dd, 1H, J=8.45, 2.24 Hz), 6.54(d, 1H, J=8.45 Hz), 4.58(s, 2H), 4.26(s, 2H), 3.73(s, 3H), 3.52(m, 6H), 2.52(t, 4H, J=4.83 Hz), 2.19(s, 3H),

Ethyl (4-[({4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-phenyl-1,3-thiazol-5-yl)methyl)sulfanyl]-2-methylphenoxy}acetate

20 ^1H NMR (CDCl₃) 400MHz δ 7.88(m, 2H), 7.40(m, 3H), 7.25(d, 1H, J=2.39 Hz), 7.17(dd, 1H, J=8.37, 2.39 Hz), 6.89(d, 2H, J=9.06 Hz), 6.81(d, 2H, J=9.06 Hz), 6.58(d, 1H, J=8.37 Hz), 4.59(s, 2H), 4.32(s, 2H), 4.23(q, 2H, J=7.12 Hz), 3.74(s, 3H), 3.56(s, 2H), 3.06(m, 4H), 2.62(m, 4H), 2.24(s, 3H), 1.27(t, 3H, J=7.12 Hz),

Ethyl 2-(4-[({4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-phenyl-1,3-thiazol-5-yl)methyl)sulfanyl]-2-methylphenoxy}propanoate

25 ^1H NMR (CDCl₃) 400MHz δ 7.88(m, 2H), 7.40(m, 3H), 7.25(d, 1H, J=2.39 Hz), 7.14(dd, 1H, J=8.37, 2.39 Hz), 6.89(d, 2H, J=9.40 Hz), 6.82(d, 2H, J=9.40 Hz), 6.57(d, 1H, J=8.37 Hz), 4.70(q, 1H, J=6.84 Hz), 4.32(s, 2H), 4.17(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.56(s, 2H), 3.08(m, 4H), 2.63(m, 4H), 2.23(m, 3H), 1.61(d, 3H, J=6.84 Hz), 1.25(t, 3H, J=7.18 Hz),

Ethyl 2-(4-[({4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-phenyl-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}-2-methylpropanoate

30 ^1H NMR (CDCl₃) 400MHz δ 7.87(m, 2H), 7.40(m, 3H), 7.28(d, 2H, J=8.89 Hz), 6.89(d, 2H, J=9.23 Hz), 6.82(d, 2H, J=9.23 Hz), 6.75(d, 2H, J=8.89 Hz), 4.33(s, 2H), 4.19(q, 2H, J=7.18 Hz), 3.76(s, 3H), 3.56(s, 2H), 3.09(br s, 4H), 2.65(br s, 4H), 1.58(s, 6H), 1.20(t, 3H, J=7.18 Hz),

Ethyl 2-[4-[(4-[(4-(2-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]propanoate

5 ¹H NMR (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.28(d, 1H, J=2.21 Hz), 7.17(dd, 1H, J=8.28, 2.21 Hz), 7.00(m, 3H), 6.88(d, 1H, J=7.73 Hz), 6.61(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.81 Hz), 4.39(s, 2H), 4.21(q, 2H, J=7.17 Hz), 3.89(s, 3H), 3.63(s, 2H), 3.12(br s, 4H), 2.72(br s, 4H), 2.27(s, 3H), 1.65(d, 3H, J=6.81 Hz), 1.26(t, 3H, J=7.17 Hz),

Ethyl 2-[2-methyl-4-[(2-[4-(trifluoromethyl)phenyl]-4-[(4-[3-(trifluoromethyl)phenyl]-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate

10 ¹H NMR (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.28 Hz), 7.70(d, 2H, J=8.28 Hz), 7.36(t, 1H, J=8.00 Hz), 7.29(d, 1H, J=2.21 Hz), 7.13(m, 4H), 6.61(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.90 Hz), 4.36(s, 2H), 4.18(q, 2H, J=7.08 Hz), 3.62(s, 2H), 3.26(t, 4H, J=4.83 Hz), 2.65(t, 4H, J=4.83 Hz), 2.26(s, 3H), 1.65(d, 3H, J=6.90 Hz), 1.27(t, 3H, J=7.08 Hz),

15 **Ethyl 2-[2-methyl-4-[(4-[(4-[2-oxo-2-(1-pyrrolidinyl)ethyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate**

20 ¹H NMR (CDCl₃) 300MHz δ 7.96(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.20(d, 1H, J=2.21 Hz), 7.10(dd, 1H, J=8.28, 2.21 Hz), 6.56(d, 1H, J=8.28 Hz), 4.69(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.16(q, 2H, J=7.08 Hz), 3.47(m, 8H), 3.10(s, 2H), 2.54(m, 6H), 2.20(s, 3H), 1.85(m, 4H), 1.60(d, 3H, J=6.71 Hz), 1.20(t, 3H, J=7.08 Hz),

Ethyl 2-[2-methyl-4-[(4-[(4-(2-pyrimidinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate

25 ¹H NMR (CDCl₃) 300MHz δ 8.31(d, 2H, J=4.69 Hz), 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.16(dd, 1H, J=8.28, 2.21 Hz), 6.60(d, 1H, J=8.28 Hz), 6.48(t, 1H, J=4.69 Hz), 4.74(q, 1H, J=6.71 Hz), 4.35(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.85(t, 4H, J=4.97 Hz), 3.57(s, 2H), 2.54(t, 4H, J=4.97 Hz), 2.24(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.08 Hz),

30 **Ethyl 2-[2-methyl-4-[(4-[(4-(2-pyrazinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate**

¹H NMR (CDCl₃) 300MHz δ 8.14(m, 1H), 8.06(m, 1H), 8.01(d, 2H, J=8.28 Hz), 7.85(d, 1H, J=2.48 Hz), 7.67(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.33(s, 2H), 4.16(q, 2H, J=7.17 Hz), 3.60(m, 6H), 2.58(t, 4H, J=4.83 Hz), 2.25(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.17 Hz),

35 **Ethyl 2-[2-methyl-4-[(2-[4-(trifluoromethyl)phenyl]-4-[(4-[4-(trifluoromethyl)phenyl]-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate**

40 ¹H NMR (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.28 Hz), 7.70(d, 2H, J=8.28 Hz), 7.51(d, 2H, J=8.55 Hz), 7.28(d, 1H, J=2.21 Hz), 7.18(dd, 1H, J=8.28, 2.21 Hz), 6.94(d, 2H, J=8.55 Hz), 6.61(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.71 Hz), 4.35(s, 2H), 4.21(q, 2H, J=7.17 Hz), 3.62(s, 2H), 3.33(t, 4H, J=4.55 Hz), 2.66(t, 4H, J=4.55 Hz), 2.27(s, 3H), 1.66(d, 3H, J=6.71 Hz), 1.26(t, 3H, J=7.17 Hz),

Ethyl 2-[4-[{(4-acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-isopropylphenoxy}propanoate

5 ^1H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.10 Hz), 7.64(d, 2H, J=8.10 Hz), 7.17(d, 1H, J=2.24 Hz), 7.11(dd, 1H, J=8.45, 2.24 Hz), 6.54(d, 1H, J=8.45 Hz), 4.72(q, 1H, J=6.78 Hz), 4.23(s, 2H), 4.14(q, 2H, J=7.13 Hz), 3.59(s, 2H), 3.42(br s, 4H), 3.30(m, 1H), 2.42(br s, 4H), 2.04(s, 3H), 1.59(d, 3H, J=6.78 Hz), 1.17(m, 9H),

10 **Ethyl 2-[4-[{(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-isopropylphenoxy}propanoate**

15 ^1H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.20(d, 1H, J=2.24 Hz), 7.13(dd, 1H, J=8.45, 2.24 Hz), 6.92(m, 2H), 6.83(m, 2H), 6.55(d, 1H, J=8.45 Hz), 4.71(q, 1H, J=6.78 Hz), 4.28(s, 2H), 4.14(q, 2H, J=7.18 Hz), 3.48(s, 2H), 3.31(m, 1H), 3.07(t, 4H, J=4.83 Hz), 2.59(br s, 4H), 1.59(d, 3H, J=6.78 Hz), 1.15(m, 9H),

15 **Ethyl 2-[2-isopropyl-4-[{(4-(4-morpholinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}propanoate**

20 ^1H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.28 Hz), 7.63(d, 2H, J=8.28 Hz), 7.19(d, 1H, J=2.24 Hz), 7.12(dd, 1H, J=8.45, 2.24 Hz), 6.55(d, 1H, J=8.45 Hz), 4.71(q, 1H, J=6.78 Hz), 4.26(s, 2H), 4.14(q, 2H, J=7.13 Hz), 3.67(m, 4H), 3.41(s, 2H), 3.30(m, 1H), 2.42(br s, 4H), 1.59(d, 3H, J=6.78 Hz), 1.16(m, 9H),

25 **Ethyl 2-[2-methyl-4-[{(4-(1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}propanoate**

25 ^1H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.23 Hz), 7.67(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.23, 2.39 Hz), 6.59(d, 1H, J=8.23 Hz), 4.73(q, 1H, J=6.64 Hz), 4.34(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.52(s, 2H), 2.91(t, 4H, J=4.91 Hz), 2.46(m, 4H), 2.33(br s, 1H), 2.26(s, 3H), 1.64(d, 3H, J=6.64 Hz), 1.25(t, 3H, J=7.08 Hz),

30 **tert-Butyl 4-[{5-[{(4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl]sulfanyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methyl]-1-piperazinecarboxylate**

35 ^1H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.49, 2.39 Hz), 6.60(d, 1H, J=8.49 Hz), 4.74(q, 1H, J=6.72 Hz), 4.33(s, 2H), 4.22(q, 2H, J=7.08 Hz), 3.54(s, 2H), 3.46(m, 4H), 2.44(m, 4H), 2.27(s, 3H), 1.65(d, 3H, J=6.72 Hz), 1.48(s, 9H), 1.26(t, 3H, J=7.08 Hz),

35 **Ethyl 2-[4-[{(4-(4-chlorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy}propanoate**

40 ^1H NMR (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.23 Hz), 7.70(d, 2H, J=8.23 Hz), 7.22(m, 4H), 6.86(d, 2H, J=9.03 Hz), 6.61(d, 1H, J=8.49 Hz), 4.73(q, 1H, J=6.81 Hz), 4.36(s, 2H), 4.18(q, 2H,

J=7.08 Hz), 3.61(s, 2H), 3.17(m, 4H), 2.64(m, 4H), 2.27(s, 3H), 1.65(d, 3H, J=6.84 Hz), 1.27(t, 3H, J=7.08 Hz),

5 Ethyl 2-[4-[({4-[{(3,5-dimethyl-1-piperazinyl)methyl]}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy]propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.49, 2.39 Hz), 6.60(d, 1H, J=8.49 Hz), 4.74(q, 1H, J=6.72 Hz), 4.35(s, 2H), 4.21(q, 2H, J=7.08 Hz), 3.53(s, 2H), 2.96(m, 2H), 2.78(m, 2H), 2.26(s, 3H), 1.73(m, 2H), 1.65(d, 3H, J=6.72 Hz), 1.26(t, 3H, J=7.08 Hz), 1.09(d, 6H, J=6.37 Hz),

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Ethyl 2-[4-[({4-[4-(4-fluorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy]propanoate

¹H NMR (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.49 Hz), 7.70(d, 2H, J=8.49 Hz), 7.28(d, 1H, J=2.39 Hz), 7.18(dd, 1H, J=8.23, 2.39 Hz), 6.94(m, 4H), 6.62(d, 1H, J=8.23 Hz), 4.74(q, 1H, J=6.72 Hz), 4.37(s, 2H), 4.21(q, 2H, J=7.08 Hz), 3.63(s, 2H), 3.14(t, 4H, J=4.51 Hz), 2.67(t, 4H, J=4.51 Hz), 2.28(s, 3H), 1.65(d, 3H, J=6.72 Hz), 1.26(t, 3H, J=7.08 Hz),

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Ethyl 2-[4-[({4-[4-(4-acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy]propanoate

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¹H NMR (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.23 Hz), 7.89(d, 2H, J=8.76 Hz), 7.69(d, 2H, J=8.23 Hz), 7.28(br s, 1H), 7.17(dd, 1H, J=8.23, 2.39 Hz), 6.88(d, 2H, J=8.76 Hz), 6.60(d, 1H, J=8.23 Hz), 4.73(q, 1H, J=6.81 Hz), 4.34(s, 2H), 4.18(q, 2H, J=7.17 Hz), 3.60(s, 2H), 3.37(m, 4H), 2.63(m, 4H), 2.54(s, 3H), 2.26(s, 3H), 1.65(d, 3H, J=6.81 Hz), 1.27(t, 3H, J=7.17 Hz),

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Ethyl 4-[{5-[{[4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl]sulfanyl}methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methyl]-1-piperazinecarboxylate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.14(dd, 1H, J=8.23, 2.39 Hz), 6.60(d, 1H, J=8.23 Hz), 4.73(q, 1H, J=6.81 Hz), 4.31(s, 2H), 4.18(m, 4H), 3.50(m, 6H), 2.44(m, 4H), 2.26(s, 3H), 1.65(d, 3H, J=6.81 Hz), 1.26(m, 6H),

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Ethyl 2-[2-methyl-4-[({4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy]propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.23 Hz), 7.68(d, 2H, J=8.23 Hz), 7.27(d, 1H, J=2.39 Hz), 7.16(dd, 1H, J=8.49, 2.39 Hz), 6.60(d, 1H, J=8.49 Hz), 4.73(q, 1H, J=6.72 Hz), 4.34(s, 2H), 4.21(q, 2H, J=7.08 Hz), 3.73(t, 4H, J=4.51 Hz), 3.54(s, 2H), 2.49(t, 4H, J=4.51 Hz), 2.26(s, 3H), 1.65(d, 3H, J=6.72 Hz), 1.26(t, 3H, J=7.08 Hz),

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Ethyl 2-[4-[({4-[4-(3-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-methylphenoxy]propanoate

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¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.70(d, 2H, J=8.23 Hz), 7.28(m, 1H), 7.18(m, 2H), 6.62(d, 1H, J=8.23 Hz), 6.56(dd, 1H, J=8.23, 2.39 Hz), 6.50(t, 1H, J=2.26 Hz), 6.45(dd,

1H, J=8.23, 2.39 Hz), 4.74(q, 1H, J=6.81 Hz), 4.37(s, 2H), 4.21(q, 2H, J=7.08 Hz), 3.82(s, 3H), 3.61(s, 2H), 3.22(t, 4H, J=4.65 Hz), 2.65(t, 4H, J=4.65 Hz), 2.28(s, 3H), 1.66(d, 3H, J=6.81 Hz), 1.26(t, 3H, J=7.08 Hz),

5 Ethyl 2-{4-[{(4-acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}propanoate

10 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.06 Hz), 7.63(d, 2H, J=8.06 Hz), 7.16(d, 1H, J=2.38 Hz), 7.11(dd, 1H, J=8.24, 2.38 Hz), 6.55(d, 1H, J=8.24 Hz), 4.70(q, 1H, J=6.84 Hz), 4.23(s, 2H), 4.13(q, 2H, J=7.14 Hz), 3.59(br s, 2H), 3.47(s, 2H), 3.40(t, 2H, J=4.58 Hz), 2.55(t, 2H, J=7.33 Hz), 2.40(rn, 4H), 2.05(s, 3H), 1.56(m, 5H), 1.20(t, 3H, J=7.14 Hz), 0.86(t, 3H, J=7.33 Hz),

Ethyl 2-{4-[{(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}propanoate

15 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.19(d, 1H, J=2.38 Hz), 7.14(dd, 1H, J=8.42, 2.38 Hz), 6.93(m, 2H), 6.84(m, 2H), 6.56(d, 1H, J=8.42 Hz), 4.69(q, 1H, J=6.78 Hz), 4.30(s, 2H), 4.14(q, 2H, J=7.14 Hz), 3.54(s, 2H), 3.07(t, 4H, J=4.58 Hz), 2.58(m, 6H), 1.57(m, 5H), 1.22(t, 3H, J=7.14 Hz), 0.86(t, 3H, J=7.33 Hz),

20 Ethyl 2-{4-[{(4-(4-morpholinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}propanoate

25 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.24 Hz), 7.63(d, 2H, J=8.24 Hz), 7.17(d, 1H, J=2.38 Hz), 7.12(dd, 1H, J=8.42, 2.38 Hz), 6.55(d, 1H, J=8.42 Hz), 4.69(q, 1H, J=6.78 Hz), 4.27(s, 2H), 4.14(q, 2H, J=7.14 Hz), 3.66(t, 4H, J=4.67 Hz), 3.45(s, 2H), 2.56(t, 2H, J=7.33 Hz), 2.42(m, 4H), 1.56(m, 5H), 1.21(t, 3H, J=7.14 Hz), 0.86(t, 3H, J=7.33 Hz),

30 Methyl 4-[{(4-[{(4-acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-isopropylphenoxy}acetate

35 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.61 Hz), 7.64(d, 2H, J=8.61 Hz), 7.20(d, 1H, J=2.20 Hz), 7.15(dd, 1H, J=8.42, 2.20 Hz), 6.59(d, 1H, J=8.42 Hz), 4.63(s, 2H), 4.25(s, 2H), 3.76(s, 3H), 3.56(s, 2H), 3.41(m, 4H), 3.31(m, 1H), 2.38(m, 4H), 2.05(s, 3H), 1.11(d, 6H, J=6.78 Hz),

Methyl 4-[{(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-isopropylphenoxy}acetate

40 ¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.65(d, 2H, J=8.24 Hz), 7.23(d, 1H, J=2.20 Hz), 7.18(dd, 1H, J=8.42, 2.20 Hz), 6.94(m, 2H), 6.83(m, 2H), 6.60(d, 1H, J=8.42 Hz), 4.61(s, 2H), 4.30(s, 2H), 3.76(s, 3H), 3.49(s, 2H), 3.34(m, 1H), 3.07(t, 4H, J=4.58 Hz), 2.59(m, 4H), 1.13(d, 6H, J=6.96 Hz),

Methyl 2-isopropyl-4-[{(4-(4-morpholinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetate

¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.21(d, 1H, J=2.38 Hz), 7.16(dd, 1H, J=8.42, 2.38 Hz), 6.59(d, 1H, J=8.42 Hz), 4.62(s, 2H), 4.28(s, 2H), 3.76(s, 3H), 3.66(t, 4H, J=4.58 Hz), 3.41(s, 2H), 3.32(m, 1H), 2.42(m, 4H), 1.15(d, 6H, J=6.96 Hz),

5 **Methyl {2-isopropyl-4-[{4-[{4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]phenoxy}acetate**

¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.65(d, 2H, J=8.24 Hz), 7.23(d, 1H, J=2.20 Hz), 7.18(dd, 1H, J=8.42, 2.20 Hz), 6.87(d, 2H, J=9.16 Hz), 6.81(d, 2H, J=9.16 Hz), 6.60(d, 1H, J=8.42 Hz), 4.61(m, 2H), 4.31(s, 2H), 3.77(s, 3H), 3.74(s, 3H), 3.50(s, 2H), 3.33(m, 1H), 3.05(m, 4H), 2.60(br s, 4H), 1.15(d, 6H, J=6.96 Hz),

10 **Methyl {4-[{4-[{4-(4-acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]2-isopropylphenoxy}acetate**

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.28 Hz), 7.84(d, 2H, J=9.14 Hz), 7.62(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.24 Hz), 7.16(dd, 1H, J=8.45, 2.24 Hz), 6.80(d, 2H, J=9.14 Hz), 6.58(d, 1H, J=8.45 Hz), 4.59(s, 2H), 4.27(s, 2H), 3.73(s, 3H), 3.46(s, 2H), 3.30(m, 5H), 2.54(t, 4H, J=4.57 Hz), 2.47(s, 3H), 1.12(d, 6H, J=6.90 Hz),

15 **Methyl {2-isopropyl-4-[{4-[{4-(3-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]2-isopropylphenoxy}acetate**

¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.28 Hz), 7.65(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.38 Hz), 7.19(dd, 1H, J=8.42, 2.38 Hz), 7.14(t, 1H, J=8.24 Hz), 6.60(d, 1H, J=8.42 Hz), 6.51(dd, 1H, J=8.24, 2.38 Hz), 6.44(t, 1H, J=2.29 Hz), 6.39(dd, 1H, J=8.24, 2.38 Hz), 4.62(s, 2H), 4.30(s, 2H), 3.75(m, 6H), 3.48(s, 2H), 3.34(m, 1H), 3.16(t, 4H, J=4.67 Hz), 2.57(t, 4H, J=4.67 Hz), 1.14(d, 6H, J=6.78 Hz),

20 **Ethyl 2-{2-isopropyl-4-[{4-[{4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]phenoxy}propanoate**

¹H NMR (CDCl₃) 400MHz δ 8.04(d, 2H, J=8.24 Hz), 7.71(d, 2H, J=8.24 Hz), 7.16(m, 2H), 6.87(d, 2H, J=9.16 Hz), 6.78(d, 2H, J=9.16 Hz), 6.64(d, 1H, J=8.42 Hz), 4.81(q, 1H, J=6.71 Hz), 4.27(s, 2H), 4.11(q, 2H, J=7.08 Hz), 3.69(s, 3H), 3.28(m, 3H), 2.96(t, 4H, J=4.94 Hz), 2.51(t, 4H, J=4.94 Hz), 1.54(d, 3H, J=6.71 Hz), 1.12(m, 9H),

25 **Ethyl 2-{4-[{4-[{4-(4-acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]2-isopropylphenoxy}propanoate**

¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.83(d, 2H, J=9.14 Hz), 7.64(d, 2H, J=8.28 Hz), 7.19(d, 1H, J=2.24 Hz), 7.12(dd, 1H, J=8.45, 2.24 Hz), 6.81(d, 2H, J=9.14 Hz), 6.55(d, 1H, J=8.45 Hz), 4.71(q, 1H, J=6.78 Hz), 4.26(s, 2H), 4.12(q, 2H, J=7.16 Hz), 3.47(s, 2H), 3.29(m, 5H), 2.56(br s, 4H), 2.48(s, 3H), 1.58(d, 3H, J=6.78 Hz), 1.15(m, 9H),

Ethyl 2-[2-isopropyl-4-[{4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy]propanoate

5 ¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.65(d, 2H, J=8.24 Hz), 7.21(d, 1H, J=2.38 Hz), 7.14(m, 2H), 6.58(d, 1H, J=8.61 Hz), 6.51(dd, 1H, J=8.24, 2.20 Hz), 6.43(t, 1H, J=2.29 Hz), 6.39(dd, 1H, J=8.24, 2.20 Hz), 4.72(q, 1H, J=6.78 Hz), 4.29(s, 2H), 4.15(q, 2H, J=7.14 Hz), 3.76(s, 3H), 3.48(s, 2H), 3.33(m, 1H), 3.16(br s, 4H), 2.59(br s, 4H), 1.60(d, 3H, J=6.78 Hz), 1.16(m, 9H),

10 **Ethyl 4-[{4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]2-propylphenoxyacetate**

15 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.24 Hz), 7.63(d, 2H, J=8.24 Hz), 7.19(m, 2H), 6.58(d, 1H, J=8.24 Hz), 4.59(s, 2H), 4.28(s, 2H), 4.21(q, 2H, J=7.14 Hz), 3.66(t, 4H, J=4.49 Hz), 3.45(s, 2H), 2.56(t, 2H, J=7.33 Hz), 2.42(m, 4H), 1.56(m, 2H), 1.24(t, 3H, J=7.14 Hz), 0.87(t, 3H, J=7.33 Hz),

20 **Ethyl 4-[{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]2-ethylphenoxyacetate**

25 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.83(d, 2H, J=9.16 Hz), 7.63(d, 2H, J=8.24 Hz), 7.21(d, 1H, J=2.20 Hz), 7.16(dd, 1H, J=8.42, 2.20 Hz), 6.82(d, 2H, J=9.16 Hz), 6.59(d, 1H, J=8.42 Hz), 4.59(s, 2H), 4.29(s, 2H), 4.21(q, 2H, J=7.14 Hz), 3.52(s, 2H), 3.31(t, 4H, J=4.80 Hz), 2.64(q, 2H, J=7.51 Hz), 2.55(t, 4H, J=4.80 Hz), 2.47(s, 3H), 1.24(t, 3H, J=7.14 Hz), 1.14(t, 3H, J=7.51 Hz),

30 **Ethyl {2-ethyl-4-[{4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}acetate**

35 ¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.65(d, 2H, J=8.24 Hz), 7.22(s, 1H), 7.16(m, 2H), 6.60(d, 1H, J=8.42 Hz), 6.51(d, 1H, J=8.42 Hz), 6.44(s, 1H), 6.39(dd, 1H, J=8.24, 1.28 Hz), 4.60(s, 2H), 4.32(s, 2H), 4.22(q, 2H, J=7.14 Hz), 3.76(s, 3H), 3.52(s, 2H), 3.16(t, 4H, J=4.67 Hz), 2.65(q, 2H, J=7.51 Hz), 2.57(t, 4H, J=4.67 Hz), 1.26(t, 3H, J=7.14 Hz), 1.16(t, 3H, J=7.51 Hz),

40 **Ethyl {4-[{4-(4-acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]2-ethylphenoxyacetate**

45 ¹H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=8.28 Hz), 7.61(d, 2H, J=8.28 Hz), 7.16(d, 1H, J=2.24 Hz), 7.12(dd, 1H, J=8.28, 2.24 Hz), 6.56(d, 1H, J=8.28 Hz), 4.58(s, 2H), 4.20(m, 4H), 3.55(t, 4H, J=4.91 Hz), 3.43(s, 2H), 3.37(t, 4H, J=4.91 Hz), 2.60(q, 2H, J=7.50 Hz), 2.02(s, 3H), 1.22(t, 3H, J=7.14 Hz), 1.11(t, 3H, J=7.50 Hz),

50 **Ethyl {2-ethyl-4-[{4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}acetate**

¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.25(m, 2H), 6.93(m, 4H), 6.64(d, 1H, J=8.28 Hz), 4.64(s, 2H), 4.36(s, 2H), 4.26(q, 2H, J=7.08 Hz), 3.58(s, 2H), 3.11(t, 4H, J=4.97 Hz), 2.66(m, 6H), 1.29(t, 3H, J=7.08 Hz), 1.19(t, 3H, J=7.54 Hz),

5 Ethyl 2-ethyl-4-[(4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)acetate

¹H NMR (CDCl₃) 400MHz δ 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.24(m, 2H), 6.63(d, 1H, J=8.28 Hz), 4.64(s, 2H), 4.34(s, 2H), 4.26(q, 2H, J=7.17 Hz), 3.70(t, 4H, J=4.42 Hz), 3.49(s, 2H), 2.67(q, 2H, J=7.54 Hz), 2.46(t, 4H, J=4.42 Hz), 1.30(t, 3H, J=7.17 Hz), 1.19(t, 3H, J=7.54

10 Hz),

Ethyl 2-[2-ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)propanoate

¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.28 Hz), 7.70(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.19(dd, 1H, J=8.28, 2.21 Hz), 6.93(d, 2H, J=9.11 Hz), 6.86(d, 2H, J=9.11 Hz), 6.62(d, 1H, J=8.28 Hz), 4.76(q, 1H, J=6.90 Hz), 4.36(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.80(s, 3H), 3.58(s, 2H), 3.11(t, 4H, J=4.69 Hz), 2.67(m, 6H), 1.65(d, 3H, J=6.90 Hz), 1.24(m, 6H),

15 Ethyl 2-[4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]2-ethylphenoxy)propanoate

¹H NMR (CDCl₃) 400MHz δ 8.02(d, 2H, J=8.28 Hz), 7.89(d, 2H, J=8.83 Hz), 7.69(d, 2H, J=8.28 Hz), 7.25(d, 1H, J=2.21 Hz), 7.18(dd, 1H, J=8.28, 2.21 Hz), 6.88(d, 2H, J=8.83 Hz), 6.61(d, 1H, J=8.28 Hz), 4.76(q, 1H, J=6.90 Hz), 4.33(s, 2H), 4.18(q, 2H, J=7.17 Hz), 3.57(s, 2H), 3.36(m, 4H), 2.66(m, 6H), 2.53(s, 3H), 1.65(d, 3H, J=6.90 Hz), 1.23(m, 6H),

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Ethyl 2-[2-ethyl-4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)propanoate

¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.28 Hz), 7.70(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.18(m, 2H), 6.62(d, 1H, J=8.28 Hz), 6.56(dd, 1H, J=8.00, 1.66 Hz), 6.49(m, 1H), 6.44(dd, 1H, J=8.00, 1.66 Hz), 4.76(q, 1H, J=6.62 Hz), 4.35(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.81(s, 3H), 3.57(s, 2H), 3.21(t, 4H, J=4.83 Hz), 2.66(m, 6H), 1.65(d, 3H, J=6.62 Hz), 1.24(m, 6H),

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Ethyl 2-[4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]2-propylphenoxy)propanoate

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.19(d, 1H, J=2.38 Hz), 7.14(dd, 1H, J=8.42, 2.38 Hz), 6.88(d, 2H, J=9.16 Hz), 6.81(d, 2H, J=9.16 Hz), 6.56(d, 1H, J=8.42 Hz), 4.70(q, 1H, J=6.78 Hz), 4.31(s, 2H), 4.15(q, 2H, J=7.14 Hz), 3.74(s, 3H), 3.54(s, 2H), 3.05(t, 4H, J=4.85 Hz), 2.57(m, 6H), 1.56(m, 5H), 1.20(t, 3H, J=7.14 Hz), 0.86(t, 3H, J=7.33 Hz),

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Ethyl 2-[4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-propylphenoxy)propanoate

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.24 Hz), 7.84(d, 2H, J=9.14 Hz), 7.63(d, 2H, J=8.24 Hz), 7.17(d, 1H, J=2.24 Hz), 7.12(dd, 1H, J=8.45, 2.24 Hz), 6.82(d, 2H, J=9.14 Hz), 6.54(d, 1H, J=8.45 Hz), 4.68(q, 1H, J=6.78 Hz), 4.27(s, 2H), 4.13(q, 2H, J=7.07 Hz), 3.51(m, 2H), 3.31(t, 4H, J=4.91 Hz), 2.55(m, 6H), 2.47(s, 3H), 1.55(m, 5H), 1.17(t, 3H, J=7.07 Hz), 0.85(t, 3H, J=7.41 Hz),

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Ethyl 2-{4-[(4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}-2-propylphenoxy}propanoate

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.15(m, 3H), 6.56(d, 1H, J=8.45 Hz), 6.50(dd, 1H, J=8.10, 2.07 Hz), 6.43(t, 1H, J=2.07 Hz), 6.39(dd, 1H, J=8.10, 2.07 Hz), 4.70(q, 1H, J=6.72 Hz), 4.29(s, 2H), 4.14(q, 2H, J=7.07 Hz), 3.76(s, 3H), 3.52(s, 2H), 3.16(t, 4H, J=4.83 Hz), 2.58(m, 6H), 1.57(m, 5H), 1.19(t, 3H, J=7.07 Hz), 0.87(t, 3H, J=7.33 Hz),

Ethyl 2-(4-((2-(4-fluorophenyl)-4-((4-methoxyphenyl)-1-piperazinyl)methyl)-1,3-thiazol-5-yl)methyl)sulfanyl)-2-methylphenoxy)propanoate

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¹H NMR (CDCl₃) 400MHz δ 7.85(m, 2H), 7.22(d, 1H, J=2.38 Hz), 7.09(m, 3H), 6.87(d, 2H, J=9.16 Hz), 6.81(d, 2H, J=9.16 Hz), 6.56(d, 1H, J=8.42 Hz), 4.68(q, 1H, J=6.78 Hz), 4.30(s, 2H), 4.16(q, 2H, J=7.20 Hz), 3.74(s, 3H), 3.53(s, 2H), 3.07(t, 4H, J=4.58 Hz), 2.62(br s, 4H), 2.21(s, 3H), 1.60(d, 3H, J=6.78 Hz), 1.20(t, 3H, J=7.20 Hz),

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Ethyl 2-[4-((4-[(4-acetylphenyl)-1-piperazinyl]methyl)-2-(4-fluorophenyl)-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy]propanoate

¹H NMR (CDCl₃) 400MHz δ 7.85(m, 4H), 7.23(d, 1H, J=2.38 Hz), 7.09(m, 3H), 6.83(d, 2H, J=9.16 Hz), 6.55(d, 1H, J=8.42 Hz), 4.68(q, 1H, J=6.78 Hz), 4.27(s, 2H), 4.16(q, 2H, J=7.14 Hz), 3.52(s, 2H), 3.32(t, 4H, J=4.94 Hz), 2.59(br s, 4H), 2.49(s, 3H), 2.21(s, 3H), 1.60(d, 3H, J=6.78 Hz), 1.21(t, 3H, J=7.14 Hz),

Ethyl 2-(4-((2-(4-fluorophenyl)-4-[(4-(3-methoxyphenyl)-1-piperazinyl]methyl)-1,3-thiazol-5-yl)methyl)sulfanyl)-2-methylphenoxy)propanoate

¹H NMR (CDCl₃) 400MHz δ 7.85(m, 2H), 7.23(d, 1H, J=2.20 Hz), 7.11(m, 4H), 6.56(d, 1H, J=8.24 Hz), 6.51(dd, 1H, J=8.24, 2.20 Hz), 6.44(t, 1H, J=2.20 Hz), 6.39(dd, 1H, J=8.24, 2.20 Hz), 4.69(q, 1H, J=6.78 Hz), 4.29(s, 2H), 4.16(q, 2H, J=7.14 Hz), 3.76(s, 3H), 3.52(s, 2H), 3.16(t, 4H, J=4.76 Hz), 2.60(br s, 4H), 2.21(s, 3H), 1.59(d, 3H, J=6.78 Hz), 1.22(t, 3H, J=7.14 Hz),

Ethyl 4-[(5-({[4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl]sulfanyl}methyl)-2-(4-fluorophenyl)-1,3-thiazol-4-yl)methyl]-1-piperazinecarboxylate

¹H NMR (CDCl₃) 400MHz δ 7.83(m, 2H), 7.20(d, 1H, J=2.20 Hz), 7.08(m, 3H), 6.55(d, 1H, J=8.42 Hz), 4.68(q, 1H, J=6.78 Hz), 4.23(s, 2H), 4.16(q, 2H, J=7.14 Hz), 4.09(q, 2H, J=7.14 Hz), 3.42(m, 6H), 2.38(br s, 4H), 2.18(s, 3H), 1.57(d, 3H, J=6.78 Hz), 1.13(m, 6H),

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Ethyl {2-ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate

¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.65(d, 2H, J=8.24 Hz), 7.22(s, 1H), 7.17(d, 1H, J=8.42 Hz), 6.87(d, 2H, J=9.16 Hz), 6.81(d, 2H, J=9.16 Hz), 6.59(d, 1H, J=8.42 Hz), 4.60(s, 2H), 4.32(s, 2H), 4.22(q, 2H, J=7.14 Hz), 3.74(s, 3H), 3.53(s, 2H), 3.05(t, 4H, J=4.76 Hz), 2.62(m, 6H), 1.26(t, 3H, J=7.14 Hz), 1.16(t, 3H, J=7.33 Hz),

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Ethyl 2-[4-[(4-acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-ethylphenoxy}propanoate

¹H NMR (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.22(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.60(d, 1H, J=8.28 Hz), 4.75(q, 1H, J=6.81 Hz), 4.29(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.62(t, 2H, J=4.69 Hz), 3.50(s, 2H), 3.43(t, 2H, J=4.69 Hz), 2.66(q, 2H, J=7.45 Hz), 2.43(br s, 4H), 2.09(s, 3H), 1.64(d, 3H, J=6.81 Hz), 1.22(m, 6H),

10 **Ethyl 2-[2-ethyl-4-[(4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy}propanoate**

15 ¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.19(dd, 1H, J=8.55, 2.21 Hz), 6.94(m, 4H), 6.62(d, 1H, J=8.55 Hz), 4.75(q, 1H, J=6.90 Hz), 4.35(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.58(s, 2H), 3.12(t, 4H, J=4.97 Hz), 2.66(m, 6H), 1.64(d, 3H, J=6.90 Hz), 1.24(m, 6H),

20 **Ethyl 2-[2-ethyl-4-[(4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy}propanoate**

25 ¹H NMR (CDCl₃) 400MHz δ 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.21 Hz), 7.16(dd, 1H, J=8.28, 2.21 Hz), 6.60(d, 1H, J=8.28 Hz), 4.75(q, 1H, J=6.62 Hz), 4.32(s, 2H), 4.17(s, 2H), 3.70(t, 4H, J=4.42 Hz), 3.49(s, 2H), 2.66(q, 2H, J=7.54 Hz), 2.45(t, 4H, J=4.42 Hz), 1.63(d, 3H, J=6.62 Hz), 1.22(m, 6H),

Ethyl 4-[(4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-propylphenoxy}acetate

30 ¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.23(m, 2H), 6.89(m, 4H), 6.64(d, 1H, J=8.28 Hz), 4.62(s, 2H), 4.36(s, 2H), 4.26(q, 2H, J=7.08 Hz), 3.79(s, 3H), 3.60(s, 2H), 3.11(m, 4H), 2.64(m, 6H), 1.62(m, 2H), 1.30(t, 3H, J=7.08 Hz), 0.93(t, 3H, J=7.45 Hz),

Ethyl 4-[(4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-propylphenoxy}acetate

35 ¹H NMR (CDCl₃) 400MHz δ 8.02(d, 2H, J=8.28 Hz), 7.89(d, 2H, J=9.11 Hz), 7.69(d, 2H, J=8.28 Hz), 7.24(m, 2H), 6.87(d, 2H, J=9.11 Hz), 6.64(d, 1H, J=8.28 Hz), 4.62(s, 2H), 4.34(s, 2H), 4.26(q, 2H, J=7.17 Hz), 3.58(s, 2H), 3.35(t, 4H, J=4.97 Hz), 2.62(m, 6H), 2.54(s, 3H), 1.61(m, 2H), 1.29(t, 3H, J=7.17 Hz), 0.91(t, 3H, J=7.45 Hz),

40 **Ethyl 4-[(4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-propylphenoxy}acetate**

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.17(m, 3H), 6.58(d, 1H, J=8.10 Hz), 6.51(dd, 1H, J=8.10, 2.07 Hz), 6.43(t, 1H, J=2.07 Hz), 6.38(dd, 1H, J=8.10, 2.07 Hz), 4.58(s, 2H), 4.30(s, 2H), 4.21(q, 2H, J=7.13 Hz), 3.75(s, 3H), 3.53(s, 2H), 3.15(t, 4H, J=4.66 Hz), 2.57(m, 6H), 1.57(m, 2H), 1.24(t, 3H, J=7.13 Hz), 0.87(t, 3H, J=7.41 Hz),

Ethyl {4-[(4-[(4-acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl}-2-propylphenoxy}acetate

¹H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=8.28 Hz), 7.62(d, 2H, J=8.28 Hz), 7.14(m, 2H), 6.57(d, 1H, J=8.28 Hz), 4.58(s, 2H), 4.20(m, 4H), 3.56(t, 2H, J=4.91 Hz), 3.45(s, 2H), 3.38(t, 2H, J=4.91 Hz), 2.55(t, 2H, J=7.33 Hz), 2.37(m, 4H), 2.03(s, 3H), 1.53(m, 2H), 1.22(t, 3H, J=7.16 Hz), 0.85(t, 3H, J=7.33 Hz),

Ethyl {4-[(4-[(4-(4-fluorophenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}acetate

15 ^1H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.28 Hz), 7.64(d, 2H, J=8.28 Hz), 7.19(m, 2H), 6.92(m, 2H), 6.83(m, 2H), 6.58(d, 1H, J=8.28 Hz), 4.56(s, 2H), 4.29(s, 2H), 4.20(q, 2H, J=7.13 Hz), 3.53(s, 2H), 3.06(t, 4H, J=4.91 Hz), 2.57(m, 6H), 1.55(m, 2H), 1.24(t, 3H, J=7.13 Hz), 0.86(t, 3H, J=7.41 Hz),

20 Ethyl 2-[4-[(4-[(4-(2,4-dimethoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]propanoate

¹H NMR (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.16(dd, 1H, J=8.55, 2.21 Hz), 6.87(d, 1H, J=8.55 Hz), 6.60(d, 1H, J=8.55 Hz), 6.50(d, 1H, J=2.48 Hz), 6.42(dd, 1H, J=8.55, 2.48 Hz), 4.72(q, 1H, J=6.90 Hz), 4.38(s, 2H), 4.21(q, 2H, J=7.08 Hz), 3.85(s, 3H), 3.79(s, 3H), 3.61(s, 2H), 3.04(br s, 4H), 2.70(br s, 4H), 2.26(s, 3H), 1.63(d, 3H, J=6.90 Hz), 1.24(t, 3H, J=7.04 Hz),

phenyl 4-({5-({[4-(2-ethoxy-1,1-dimethyl-2-oxoethoxy)phenyl]thio}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methyl)piperazine-1-carboxylate

30 To a 500ml 3-neck round-bottom flask equipped with a magnetic stir-bar, low temperature thermometer with thermometer adapter, addition funnel and N₂ inlet was added ethyl 2-{4-[{4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl}phenoxy}-2-methylpropanoate (300mg, 0.59mmoles, 1eq) and dry CH₂Cl₂ (4ml, 0.15M) and cooled to 0 °C. Methanesulfonyl chloride (0.055ml, 0.71mmoles, 1.2eq) was added neat all at once. Triethylamine (0.12ml, 0.89mmoles, 1.5eq) was added dropwise maintaining the internal temperature below 5°C and was stirred at 0 °C for 30 minutes. The reaction mixture was transferred to a separatory funnel and washed with H₂O, brine and the organic fraction was dried over Na₂SO₄. After filtration the solvent was removed under reduced pressure to yield the corresponding mesylate in quantitative yield. Because of the unstable nature of the mesylate, the product was not characterized and was progressed onto the next stage without purification.

5 To the crude mesylate dissolved in dry THF (3ml, 0.20M) was added piperazine (559mg, 5.9mmoles, 10eq) and the reaction mixture was refluxed for 5 hours. After cooling to room temperature the solvent was removed *in vacuo*. The residue was partitioned between EtOAc and H₂O and after the phases were separated the organic fraction was dried over Na₂SO₄, filtered and concentrated *in vacuo* to yield a quantitative amount of product. The product was used without characterization and purification.

10 The crude piperazine was dissolved in dry CH₂Cl₂ (5ml, 0.12M) and to it was added phenylchloroformate (0.08ml, 0.65mmoles, 1.1eq) and triethylamine (0.248ml, 1.8mmoles, 3eq) and was stirred at room temperature overnight. The reaction mixture was diluted with EtOAc and washed with 0.1N HCl twice, H₂O, brine, dried over Na₂SO₄, filtered and concentrated *in vacuo* to yield after 15 silica gel chromatography 125mg (32% over three steps) of product.

15 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.28 Hz), 7.65(d, 2H, J=8.28 Hz), 7.33(m, 2H), 7.26(d, 2H, J=8.79 Hz), 7.17(t, 1H, J=7.59 Hz), 7.06(d, 2H, J=7.59 Hz), 6.74(d, 2H, J=8.79 Hz), 4.32(s, 2H), 4.18(q, 2H, J=7.07 Hz), 3.61(m, 6H), 2.51(br s, 4H), 1.57(s, 6H), 1.20(t, 3H, J=7.07 Hz),

20 The following compounds were made the same procedure used for phenyl 4-((5-((4-(2-ethoxy-1,1-dimethyl-2-oxoethoxy)phenyl)thio)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl)methyl)piperazine-1-carboxylate except no extra base was used when the other reactant was an isocyanate.

25 Phenyl 4-((5-((4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl)sulfanyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl)methyl)-1-piperazinecarboxylate

30 ¹H NMR (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.28 Hz), 7.77(d, 2H, J=8.28 Hz), 7.60(m, 5H), 7.20(d, 1H, J=2.21 Hz), 7.10(dd, 1H, J=8.55, 2.21 Hz), 6.57(d, 1H, J=8.55 Hz), 4.74(q, 1H, J=6.71 Hz), 4.20(m, 4H), 3.48(s, 2H), 3.06(br s, 4H), 2.56(br s, 4H), 2.24(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.04 Hz),

35 benzyl 4-((5-((4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl)thio)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl)methyl)-1-piperazinecarboxylate

40 ¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.00 Hz), 7.69(d, 2H, J=8.00 Hz), 7.36(m, 5H), 7.26(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.55, 2.21 Hz), 6.60(d, 1H, J=8.55 Hz), 5.16(s, 2H), 4.74(q, 1H, J=6.62 Hz), 4.31(s, 2H), 4.21(q, 2H, J=7.08 Hz), 3.55(m, 6H), 2.47(br s, 4H), 2.26(s, 3H), 1.65(d, 3H, J=6.62 Hz), 1.25(t, 3H, J=7.08 Hz),

45 Isopropyl 4-((5-((4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl)sulfanyl)methyl)-2-(4-fluorophenyl)-1,3-thiazol-4-yl)methyl)-1-piperazinecarboxylate

50 ¹H NMR (CDCl₃) 400MHz δ 7.84(m, 2H), 7.22(d, 1H, J=2.20 Hz), 7.09(m, 3H), 6.55(d, 1H, J=8.42 Hz), 4.89(m, 1H), 4.68(q, 1H, J=6.78 Hz), 4.26(s, 2H), 4.16(q, 2H, J=7.20 Hz), 3.47(m, 6H), 2.40(br s, 4H), 2.22(s, 3H), 1.61(d, 3H, J=6.78 Hz), 1.27(m, 9H),

Ethyl 2-[(4-[(4-(cyclopentylcarbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy}propanoate

5 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.31(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.65(br s, 2H), 3.50(br s, 4H), 2.87(m, 1H), 2.45(t, 4H, J=4.69 Hz), 2.23(s, 3H), 1.73(m, 11H), 1.24(t, 3H, J=7.17 Hz),

Ethyl 2-[(4-[(4-(cyclopropylcarbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy}propanoate

10 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.31(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.67(br s, 4H), 3.55(s, 2H), 2.49(br s, 4H), 2.26(s, 3H), 1.74(m, 1H), 1.64(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.08 Hz), 1.00(m, 2H), 0.76(m, 2H),

15 **Ethyl 2-[(4-[(4-(cyclobutylcarbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy}propanoate**

20 ¹H NMR (CDCl₃) 300MHz δ 7.99(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.21 Hz), 7.13(dd, 1H, J=8.28, 2.21 Hz), 6.58(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.28(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.64(t, 2H, J=4.83 Hz), 3.52(s, 2H), 3.36(t, 2H, J=4.83 Hz), 3.24(m, 1H), 2.47(m, 4H), 2.08(m, 9H), 1.63(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.17 Hz),

Methyl 4-[(5-([4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl]sulfanyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl)methyl]1-piperazinecarboxylate

25 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.31(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.71(s, 3H), 3.50(m, 6H), 2.44(br s, 4H), 2.26(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.17 Hz),

30 **Ethyl 2-[2-methyl-4-[(4-[(4-(3-methylbutanoyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate**

35 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.55, 2.48 Hz), 6.59(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.65(br s, 2H), 3.54(s, 2H), 3.47(t, 2H, J=4.69 Hz), 2.45(t, 4H, J=4.83 Hz), 2.26(s, 3H), 2.12(m, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.08 Hz), 0.96(d, 6H, J=6.35 Hz),

40 **Ethyl 2-[(4-[(4-(4-fluorobenzoyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy}propanoate**

45 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.43(m, 2H), 7.24(d, 1H, J=2.39 Hz), 7.11(m, 3H), 6.59(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.19(q, 2H, J=7.17 Hz), 3.65(m, 6H), 2.53(m, 4H), 2.25(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.17 Hz),

Ethyl 2-(2-methyl-4-[(4-[(4-(propylsulfonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate

5 ¹H NMR (CDCl₃) 300MHz δ, 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.71 Hz), 4.28(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.55(s, 2H), 3.30(t, 4H, J=4.55 Hz), 2.89(m, 2H), 2.56(t, 4H, J=4.28 Hz), 2.26(s, 3H), 1.87(m, 2H), 1.65(d, 3H, J=6.62 Hz), 1.25(t, 3H, J=7.04 Hz), 1.07(t, 3H, J=7.17 Hz).

10 **Ethyl 2-{4-[(4-(4-butyryl-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}2-methylphenoxy}propanoate**

15 ¹H NMR (CDCl₃) 300MHz δ, 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.55, 2.21 Hz), 6.59(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.64(m, 2H), 3.54(s, 2H), 3.45(t, 2H, J=4.83 Hz), 2.45(t, 4H, J=4.83 Hz), 2.31(t, 2H, J=7.31 Hz), 2.25(s, 3H), 1.66(m, 5H), 1.24(t, 3H, J=7.08 Hz), 0.98(t, 3H, J=7.31 Hz),

20 **Ethyl 2-{2-methyl-4-[(4-[(4-pentanoyl-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate**

25 ¹H NMR (CDCl₃) 300MHz δ, 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.58(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.19(q, 2H, J=7.27 Hz), 3.64(m, 2H), 3.54(s, 2H), 3.46(t, 2H, J=4.83 Hz), 2.45(t, 4H, J=4.83 Hz), 2.32(t, 2H, J=7.45 Hz), 2.24(s, 3H), 1.61(m, 5H), 1.37(m, 2H), 1.24(t, 3H, J=7.27 Hz), 0.93(t, 3H, J=7.45 Hz),

30 **Ethyl 2-{4-[(4-[(4-methoxybenzoyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}2-methylphenoxy}propanoate**

35 ¹H NMR (CDCl₃) 300MHz δ, 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.40(d, 2H, J=8.83 Hz), 7.24(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.92(d, 2H, J=8.83 Hz), 6.59(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.19(q, 2H, J=7.08 Hz), 3.84(s, 3H), 3.63(m, 6H), 2.49(br s, 4H), 2.25(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.08 Hz),

40 **Ethyl 2-{4-[(4-[(4-benzoyl-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}2-methylphenoxy}propanoate**

45 ¹H NMR (CDCl₃) 300MHz δ, 7.99(d, 2H, J=8.55 Hz), 7.67(d, 2H, J=8.55 Hz), 7.41(m, 5H), 7.24(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.55, 2.21 Hz), 6.59(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.19(q, 2H, J=7.04 Hz), 3.83(br s, 2H), 3.56(s, 2H), 3.39(br s, 2H), 2.50(br s, 4H), 2.25(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.04 Hz),

50 **Isobutyl 4-[(5-[(4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl)sulfanyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl)methyl]1-piperazinecarboxylate**

55 ¹H NMR (CDCl₃) 300MHz δ, 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.32(s,

2H), 4.20(q, 2H, J=7.08 Hz), 3.88(d, 2H, J=6.62 Hz), 3.53(m, 6H), 2.46(br s, 4H), 2.25(s, 3H), 1.94(m, 1H), 1.65(d, 3H, J=6.62 Hz), 1.25(t, 3H, J=7.17 Hz), 0.95(d, 6H, J=6.62 Hz).

Ethyl 2-{2-methyl-4-[(4-{[4-(2-thienylcarbonyl)-1-piperazinyl]methyl}-2-[4-

(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.45(d, 1H, J=4.97 Hz), 7.30(d, 1H, J=3.59 Hz), 7.25(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 7.05(m, 1H), 6.60(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.71 Hz), 4.31(s, 2H), 4.19(q, 2H, J=7.08 Hz), 3.78(t, 4H, J=4.69 Hz), 3.56(s, 2H), 2.55(t, 4H, J=4.69 Hz), 2.25(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.08 Hz),

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Phenyl 4-[(5-[(4-(2-ethoxy-1-methyl-2-oxoethoxy)-3-methylphenyl]sulfanyl)methyl]-2-(4-fluorophenyl)-1,3-thiazol-4-yl]methyl]-1-piperazinecarboxylate

¹H NMR (CDCl₃) 400MHz δ 7.85(m, 2H), 7.33(m, 2H), 7.15(m, 7H), 6.57(d, 1H, J=8.61 Hz), 4.69(q, 1H, J=6.78 Hz), 4.27(s, 2H), 4.14(q, 2H, J=7.14 Hz), 3.63(br s, 4H), 3.50(s, 2H), 2.49(br s, 4H), 2.23(s, 3H), 1.60(d, 3H, J=6.78 Hz), 1.22(t, 3H, J=7.14 Hz),

Ethyl 2-{4-[(4-{[4-(dimethylamino)benzoyl]-1-piperazinyl}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.37(d, 2H, J=8.83 Hz), 7.25(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.68(d, 2H, J=8.83 Hz), 6.60(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.32(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.67(br s, 4H), 3.55(s, 2H), 3.02(s, 6H), 2.51(br s, 4H), 2.26(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.17 Hz),

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Ethyl 2-{4-[(4-{[4-(cyclohexylcarbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.59(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.58(m, 6H), 2.47(m, 5H), 2.26(s, 3H), 1.63(m, 11H), 1.27(m, 5H),

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Ethyl 2-{2-methyl-4-[(4-{[4-(methylamino)carbonyl]-1-piperazinyl}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.55, 2.21 Hz), 6.53(d, 1H, J=8.55 Hz), 4.84(m, 1H), 4.70(q, 1H, J=6.90 Hz), 4.25(m, 4H), 3.52(m, 2H), 3.29(m, 4H), 2.80(d, 3H, J=4.42 Hz), 2.35(t, 4H, J=4.83 Hz), 2.22(s, 3H), 1.64(d, 3H, J=6.90 Hz), 1.25(t, 3H, J=7.17 Hz),

Ethyl 2-{4-[(4-{[4-(tert-butylamino)carbonyl]-1-piperazinyl}methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.56(d, 1H, J=8.28 Hz), 4.72(q, 1H, J=6.81 Hz), 4.42(s,

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1H), 4.33(d, 1H, J=.63 Hz), 4.26(d, 1H, J=63 Hz), 4.20(q, 2H, J=7.08 Hz), 3.53(s, 2H), 3.29(m, 4H), 2.40(t, 4H, J=4.69 Hz), 2.25(s, 3H), 1.63(d, 3H, J=6.81 Hz), 1.35(s, 9H), 1.25(t, 3H, J=7.09 Hz),

Ethyl 2-{4-[{(4-[(4-methoxyanilino)carbonyl]-1-piperazinyl)methyl]-2-[4-

(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.05(d, 2H, J=8.28 Hz), 7.73(d, 2H, J=8.28 Hz), 7.23(m, 4H), 6.84(d, 2H, J=6.90 Hz), 6.66(d, 1H, J=8.55 Hz), 4.83(q, 1H, J=6.76 Hz), 4.36(d, 1H, J=63 Hz), 4.30(d, 1H, J=.63 Hz), 4.16(q, 2H, J=7.08 Hz), 3.75(s, 3H), 3.46(m, 6H), 2.43(t, 4H, J=4.83 Hz), 2.21(s, 3H), 1.58(d, 3H, J=6.76 Hz), 1.20(t, 3H, J=7.08 Hz),

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Ethyl 2-{2-methyl-4-[{(4-[(2-phenylethyl)amino]carbonyl}-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.24(m, 7H), 6.57(d, 1H, J=8.55 Hz), 4.74(m, 2H), 4.33(d, 1H, J=.35 Hz), 4.26(d, 1H, J=.35 Hz), 4.20(q, 2H, J=7.04 Hz), 3.50(m, 4H), 3.28(m, 4H), 2.84(t, 2H, J=7.04 Hz), 2.38(t, 4H, J=4.83 Hz), 2.25(s, 3H), 1.65(d, 3H, J=6.62 Hz), 1.26(t, 3H, J=7.04 Hz),

Ethyl 2-{2-methyl-4-[{(4-[(4-phenylsulfonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoate

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¹H NMR (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.28 Hz), 7.77(d, 2H, J=8.28 Hz), 7.59(m, 5H), 7.20(d, 1H, J=2.21 Hz), 7.10(dd, 1H, J=8.55, 2.21 Hz), 6.58(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.19(m, 4H), 3.48(s, 2H), 3.07(br s, 4H), 2.56(br s, 4H), 2.25(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.04 Hz),

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Ethyl 2-{2-methyl-4-[{(2-[4-(trifluoromethyl)phenyl]-4-[{(4-(trifluoromethyl)phenyl]sulfonyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 7.98(d, 2H, J=8.28 Hz), 7.90(d, 2H, J=8.55 Hz), 7.81(d, 2H, J=8.55 Hz), 7.67(d, 2H, J=8.28 Hz), 7.21(d, 1H, J=2.21 Hz), 7.10(dd, 1H, J=8.28, 2.21 Hz), 6.58(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.71 Hz), 4.21(m, 4H), 3.49(s, 2H), 3.09(br s, 4H), 2.58(br s, 4H), 2.24(s, 3H), 1.66(d, 3H, J=6.71 Hz), 1.26(t, 3H, J=7.17 Hz),

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Ethyl 2-{4-[{(4-[(4-methoxyphenyl)sulfonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoate

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¹H NMR (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.28 Hz), 7.67(m, 4H), 7.20(d, 1H, J=2.21 Hz), 7.09(dd, 1H, J=8.55, 2.21 Hz), 6.99(d, 2H, J=8.83 Hz), 6.58(d, 1H, J=8.55 Hz), 4.74(q, 1H, J=6.71 Hz), 4.20(m, 4H), 3.87(s, 3H), 3.49(s, 2H), 3.05(br s, 4H), 2.54(br s, 4H), 2.24(s, 3H), 1.66(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.04 Hz),

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Ethyl 2-{4-[{(4-[(4-ethylsulfonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.48 Hz), 7.15(d, 1H, J=2.48 Hz), 6.59(d, 1H, J=8.28 Hz), 4.74(q, 1H, J=6.81 Hz), 4.28(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.55(s, 2H), 3.32(t, 4H, J=4.69 Hz), 2.96(q, 2H, J=7.45 Hz), 2.55(br s, 4H), 2.25(s, 3H), 1.65(d, 3H, J=6.81 Hz), 1.38(t, 3H, J=7.45 Hz), 1.25(t, 3H, J=7.17 Hz).

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Ethyl 2-{2-methyl-4-[(4-[(4-methylsulfonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.55 Hz), 7.68(d, 2H, J=8.55 Hz), 7.26(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.55, 2.21 Hz), 6.59(d, 1H, J=8.55 Hz), 4.73(q, 1H, J=6.71 Hz), 4.27(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.56(s, 2H), 3.24(t, 4H, J=4.55 Hz), 2.78(s, 3H), 2.58(t, 4H, J=4.55 Hz), 2.24(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.25(t, 3H, J=7.17 Hz),

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Ethyl 2-{4-[(4-[(4-(acetylamino)phenyl)sulfonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.40(s, 1H), 7.96(d, 2H, J=8.28 Hz), 7.66(m, 6H), 7.16(d, 1H, J=2.21 Hz), 7.07(dd, 1H, J=8.28, 2.21 Hz), 6.56(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.22(m, 4H), 3.51(s, 2H), 3.03(br s, 4H), 2.55(br s, 4H), 2.19(m, 6H), 1.65(d, 3H, J=6.71 Hz), 1.27(t, 3H, J=7.04 Hz),

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Ethyl 2-{4-[(4-[(4-fluorophenyl)sulfonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.28 Hz), 7.77(m, 2H), 7.66(d, 2H, J=8.28 Hz), 7.22(m, 3H), 7.10(dd, 1H, J=8.55, 2.21 Hz), 6.58(d, 1H, J=8.55 Hz), 4.74(q, 1H, J=6.81 Hz), 4.20(m, 4H), 3.49(s, 2H), 3.07(br s, 4H), 2.57(t, 4H, J=4.42 Hz), 2.24(s, 3H), 1.65(d, 3H, J=6.81 Hz), 1.27(t, 3H, J=7.17 Hz),

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Ethyl 2-{4-[(4-[(4-(2-furoyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.48(s, 1H), 7.24(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.99(d, 1H, J=3.59 Hz), 6.60(d, 1H, J=8.28 Hz), 6.48(m, 1H), 4.73(q, 1H, J=6.71 Hz), 4.31(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.83(br s, 4H), 3.55(s, 2H), 2.54(t, 4H, J=4.83 Hz), 2.25(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.08 Hz),

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Ethyl 2-{4-[(4-[(4-(isopropylamino)carbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}propanoate

¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=1.93 Hz), 7.14(dd, 1H, J=8.55, 2.21, 0.55 Hz), 6.55(d, 1H, J=8.28 Hz), 4.72(q, 1H, J=6.81 Hz), 4.47(d, 1H, J=7.17 Hz), 4.26(m, 4H), 3.99(m, 1H), 3.52(m, 2H), 3.29(m, 4H), 2.37(t, 4H, J=4.69 Hz), 2.24(s, 3H), 1.64(d, 3H, J=6.62 Hz), 1.25(t, 3H, J=7.17 Hz), 1.15(m, 6H),

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Ethyl 2-[4-[(4-(methoxyacetyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy}propanoate

5 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.58(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.29(s, 2H), 4.20(q, 2H, J=7.17 Hz), 4.10(s, 2H), 3.64(m, 2H), 3.54(s, 2H), 3.48(m, 2H), 3.42(s, 3H), 2.47(m, 4H), 2.25(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.17 Hz),

Ethyl 2-[4-[(4-(4-isobutyryl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy}propanoate

10 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.48 Hz), 7.14(dd, 1H, J=8.55, 2.48 Hz), 6.59(d, 1H, J=8.55 Hz), 4.74(q, 1H, J=6.71 Hz), 4.30(s, 2H), 4.20(q, 2H, J=7.17 Hz), 3.58(m, 6H), 2.79(m, 1H), 2.46(t, 4H, J=4.55 Hz), 2.24(s, 3H), 1.64(d, 3H, J=6.71 Hz), 1.24(t, 3H, J=7.17 Hz), 1.13(d, 6H, J=6.71 Hz),

15 **Ethyl 2-[4-[(4-(2,2-dimethylpropanoyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy}propanoate**

20 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.24(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.60(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.71 Hz), 4.31(s, 2H), 4.20(q, 2H, J=7.08 Hz), 3.66(t, 4H, J=4.69 Hz), 3.52(s, 2H), 2.48(t, 4H, J=4.69 Hz), 2.26(s, 3H), 1.65(d, 3H, J=6.71 Hz), 1.27(m, 12H),

Ethyl 2-[4-[(4-[(4-fluoroanilino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy}propanoate

25 ¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.33(m, 2H), 7.17(dd, 1H, J=8.55, 2.21 Hz), 6.96(m, 2H), 6.52(d, 1H, J=8.55 Hz), 4.72(q, 1H, J=6.90 Hz), 4.27(m, 4H), 3.59(d, 1H, J=5.52 Hz), 3.51(d, 1H, J=5.52 Hz), 3.34(m, 4H), 2.33(t, 4H, J=4.97 Hz), 2.22(s, 3H), 1.62(d, 3H, J=6.90 Hz), 1.26(t, 3H, J=7.17 Hz),

30 **Ethyl 2-[4-[(4-[(3-methoxyanilino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy}propanoate**

35 ¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.31(d, 1H, J=2.21 Hz), 7.16(m, 2H), 6.89(m, 2H), 6.59(dd, 1H, J=8.28, 2.21 Hz), 6.53(m, 1H), 4.73(q, 1H, J=6.90 Hz), 4.27(m, 4H), 3.79(s, 3H), 3.56(m, 2H), 3.37(m, 4H), 2.36(t, 4H, J=4.69 Hz), 2.23(s, 3H), 1.63(d, 3H, J=6.90 Hz), 1.26(t, 3H, J=7.17 Hz),

40 **Ethyl 2-[4-[(4-[(4-(aminocarbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]-2-methylphenoxy}propanoate**

45 ¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.55, 2.21 Hz), 6.56(d, 1H, J=8.55 Hz), 4.83(s, 2H), 4.71(q, 1H, J=6.81 Hz), 4.26(m, 4H), 3.55(m, 2H), 3.34(m, 4H), 2.41(t, 4H, J=4.55 Hz), 2.24(s, 3H), 1.63(d, 3H, J=6.81 Hz), 1.25(t, 3H, J=7.04 Hz),

Ethyl 2-{4-[(4-[(4-[(cyclohexylamino)carbonyl]-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoate

5 ¹H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.28 Hz), 7.67(d, 2H, J=8.28 Hz), 7.26(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.55, 2.21 Hz), 6.54(d, 1H, J=8.55 Hz), 4.72(q, 1H, J=6.81 Hz), 4.49(d, 1H, J=7.45 Hz), 4.25(m, 4H), 3.64(m, 1H), 3.52(m, 2H), 3.28(m, 4H), 2.38(t, 4H, J=4.83 Hz), 2.24(s, 3H), 1.95(m, 2H), 1.65(m, 7H), 1.38(m, 2H), 1.24(t, 3H, J=7.04 Hz), 1.10(m, 2H),

10 **Ethyl 2-{2-methyl-4-[(4-[(4-[(propylamino)carbonyl]-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoate**

15 ¹H NMR (CDCl₃) 300MHz δ 8.01(d, 2H, J=8.00 Hz), 7.68(d, 2H, J=8.00 Hz), 7.27(d, 1H, J=2.21 Hz), 7.14(dd, 1H, J=8.28, 2.21 Hz), 6.54(d, 1H, J=8.28 Hz), 4.75(m, 2H), 4.26(m, 4H), 3.53(m, 2H), 3.33(m, 4H), 3.19(m, 2H), 2.36(t, 4H, J=4.69 Hz), 2.23(s, 3H), 1.64(d, 3H, J=6.90 Hz), 1.52(m, 2H), 1.25(t, 3H, J=7.17 Hz), 0.92(t, 3H, J=7.45 Hz),

20 **Ethyl 2-{4-[(4-[(4-[(ethylamino)carbonyl]-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoate**

25 ¹H NMR (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.55, 2.21 Hz), 6.54(d, 1H, J=8.55 Hz), 4.72(m, 2H), 4.26(m, 4H), 3.54(m, 2H), 3.29(m, 6H), 2.38(t, 4H, J=4.28 Hz), 2.25(s, 3H), 1.65(d, 3H, J=6.90 Hz), 1.26(t, 3H, J=7.04 Hz), 1.15(t, 3H, J=7.31 Hz),

Ethyl [2-methyl-4-[(4-[(3-5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy]acetate

30 To a stirred solution of ethyl [4-[(4-(hydroxymethyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]acetate (40mg, 0.08mmoles, 1eq) in dry toluene (2ml) was added 3-(5-methyl-1,2,4-oxadiazol-3-yl)phenol (15mg, 0.088mmoles, 1.1eq) followed by triphenylphosphine (25mg, 0.096mmoles, 1.2eq) as a solid. Diisopropylazodicarboxylate (0.017ml, 0.088mmoles, 1.1eq) was then added dropwise and the reaction was stirred for 2 hours at room temperature. The reaction was then partitioned between EtOAc and H₂O. After the separation of the phases the organic phase was washed with 0.1N NaOH, brine, dried over Na₂SO₄, filtered, concentrated *in vacuo* and purified via flash chromatography (10% EtOAc/Hexanes to 35% EtOAc/Hexanes) to yield 40mg (76%) of product.

35 ¹H (CDCl₃) 400MHz δ 8.02(d, 2H, J=8.20 Hz), 7.68(m, 4H), 7.38(t, 1H, J=7.95 Hz), 7.19(d, 1H, J=1.54), 7.12(dd, 1H, J=8.37, 2.39 Hz), 7.06(dd, 1H, J=8.20, 2.39 Hz), 6.57(d, 1H, J=8.20 Hz), 4.95(s, 2H), 4.59(s, 2H), 4.27(s, 2H), 4.22(q, 2H, J=7.12 Hz), 2.65(s, 3H), 2.18(s, 3H), 1.25(t, 3H, J=7.12 Hz). TLC(50% EtOAc/Hexanes) R_f = 0.76

40 The following compounds were made using the general Mitsunobu reaction conditions detailed above:

Ethyl 2-(2-methyl-4-[(4-[(3-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy]propanoate

5 ¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.20 Hz), 7.69(m, 4H), 7.39(m, 1H), 7.20(m, 1H), 7.09(m, 2H), 6.55(d, 1H, J=8.37 Hz), 4.99(d, 1H, J .62 Hz), 4.95(d, 1H, J .62 Hz), 4.70(q, 1H, J=6.78 Hz), 4.16(q, 2H, J=7.18 Hz), 2.65(m, 3H), 2.18(s, 3H), 1.61(d, 3H, J=6.78 Hz), 1.20(t, 3H, J=7.18 Hz),

Ethyl (2-methyl-4-[(4-[(3-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-phenyl-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy]acetate

10 ¹H NMR (CDCl₃) 400MHz δ 7.91(m, 2H), 7.69(m, 2H), 7.40(m, 4H), 7.20(d, 1H, J=2.39 Hz), 7.13(dd, 1H, J=8.37, 2.39 Hz), 7.07(dd, 1H, J=8.37, 2.39 Hz), 6.57(d, 1H, J=8.37 Hz), 5.29(s, 2H), 4.59(s, 2H), 4.27(s, 2H), 4.23(q, 2H, J=7.18 Hz), 2.65(s, 3H), 2.19(s, 3H), 1.27(t, 3H, J=7.18 Hz).

Ethyl [2-methyl-4-[(2-4-(trifluoromethyl)phenyl)-4-(phenoxy)methyl]-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy]acetate

15 ¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.71(d, 2H, J=8.23 Hz), 7.34(m, 2H), 7.23(d, 1H, J=2.39 Hz), 7.15(dd, 1H, J=8.49, 2.39 Hz), 7.00(m, 3H), 6.59(d, 1H, J=8.49 Hz), 4.94(s, 2H), 4.64(s, 2H), 4.27(m, 4H), 2.26(s, 3H), 1.32(t, 3H, J=7.17 Hz). TLC(30% EtOAc/Hexanes) R_f= 0.71

20 **Ethyl [2-methyl-4-[(4-[(2-methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy]acetate**

¹H (CDCl₃) 300MHz δ 8.05(d, 2H, J=8.23 Hz), 7.72(d, 2H, J=8.23 Hz), 7.21(m, 4H), 6.93(m, 2H), 6.59(d, 1H, J=8.49 Hz), 5.00(s, 2H), 4.64(s, 2H), 4.29(m, 4H), 2.26(m, 6H), 1.32(t, 3H, J=7.17 Hz). TLC(20% EtOAc/Hexanes) R_f = 0.70

25 **Ethyl [2-methyl-4-[(4-[(3-methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy]acetate**

¹H (CDCl₃) 300MHz δ 8.05(d, 2H, J=8.49 Hz), 7.71(d, 2H, J=8.49 Hz), 7.35(m, 1H), 7.26(dd, 1H, J=2.39, 0.53 Hz), 7.21(t, 1H, J=7.43 Hz), 7.15(dd, 1H, J=8.49, 2.39, 0.53 Hz), 6.81(m, 2H), 6.60(d, 1H, J=8.49 Hz), 4.92(s, 2H), 4.65(s, 2H), 4.29(m, 4H), 2.38(s, 3H), 2.25(s, 3H), 1.32(t, 3H, J=7.17 Hz). TLC(20% EtOAc/Hexanes) R_f = 0.70

35 **Ethyl [2-methyl-4-[(4-[(4-methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy]acetate**

¹H (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.71(d, 2H, J=8.23 Hz), 7.27(dd, 1H, J=2.39, 0.80 Hz), 7.14(m, 3H), 6.88(d, 2H, J=8.49 Hz), 6.60(d, 1H, J=8.23 Hz), 4.92(s, 2H), 4.64(s, 2H), 4.29(m, 4H), 2.33(s, 3H), 2.26(s, 3H), 1.32(t, 3H, J=7.17 Hz). TLC(20% EtOAc/Hexanes) R_f = 0.70

40 **Ethyl [4-[(4-[(3-cyanophenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl)sulfanyl]-2-methylphenoxy]acetate**

¹H (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.23 Hz), 7.71(d, 2H, J=8.23 Hz), 7.24(m, 6H), 6.61(d, 1H, J=8.23 Hz), 4.88(s, 2H), 4.67(s, 2H), 4.28(m, 4H), 2.24(s, 3H), 1.31(t, 3H, J=7.17 Hz) . TLC(20% EtOAc/Hexanes) R_f = 0.52

5 Ethyl [4-((4-cyanophenoxy)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]acetate

¹H (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.23 Hz), 7.73(d, 2H, J=8.23 Hz), 7.61(d, 2H, J=9.03 Hz), 7.23(dd, 1H, J=2.39, 0.53 Hz), 7.14(ddd, 1H, J=8.49, 2.39, 0.53 Hz), 7.01(d, 2H, J=9.03 Hz), 6.59(d, 1H, J=8.49 Hz), 4.91(s, 2H), 4.66(s, 2H), 4.28(m, 4H), 2.25(s, 3H), 1.32(t, 3H, J=7.17 Hz) .

10 TLC(20% EtOAc/Hexanes) R_f = 0.52

Ethyl [2-methyl-4-((4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-(4-(trifluoro)methylphenyl)-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy]acetate

¹H (CDCl₃) 400MHz δ 7.99(m, 4H), 7.67(d, 2H, J=8.20 Hz), 7.21(dd, 1H, J=2.39, 0.68 Hz), 7.10(m, 1H), 7.02(m, 2H), 6.54(d, 1H, J=8.37 Hz), 4.90(s, 2H), 4.59(s, 2H), 4.23(m, 4H), 2.62(s, 3H), 2.20(s, 3H), 1.26(t, 3H, J=7.18 Hz) . TLC(50% EtOAc/Hexanes) R_f = 0.68

Ethyl (2-methyl-4-((4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetate

20 ¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.89 Hz), 7.89(m, 2H), 7.42(m, 3H), 7.21(d, 1H, J=2.39 Hz), 7.10(dd, 1H, J=8.37, 2.39 Hz), 7.02(d, 2H, J=8.89 Hz), 6.54(d, 1H, J=8.37 Hz), 4.89(s, 2H), 4.59(s, 2H), 4.23(q, 2H, J=7.18 Hz), 3.47(s, 2H), 2.62(s, 3H), 2.20(s, 3H), 1.27(t, 3H, J=7.18 Hz),

Ethyl 2-(2-methyl-4-((4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate

¹H NMR (CDCl₃) 300MHz δ 8.04(m, 4H), 7.71(d, 2H, J=8.23 Hz), 7.25(d, 1H, J=2.39 Hz), 7.11(dd, 1H, J=8.49, 2.39 Hz), 7.06(d, 2H, J=9.03 Hz), 6.57(d, 1H, J=8.49 Hz), 4.97(d, 1H, J .68 Hz), 4.91(d, 1H, J .68 Hz), 4.73(q, 1H, J=6.81 Hz), 4.29(s, 2H), 4.20(q, 2H, J=7.17 Hz), 2.67(s, 3H), 2.23(s, 3H), 1.65(d, 3H, J=6.81 Hz), 1.25(t, 3H, J=7.17 Hz),

30

Ethyl 2-(2-methyl-4-((4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoate

¹H NMR (CDCl₃) 400MHz δ 7.99(d, 2H, J=9.06 Hz), 7.89(m, 2H), 7.42(m, 3H), 7.20(d, 1H, J=2.22 Hz), 7.06(dd, 1H, J=8.37, 2.22 Hz), 7.02(d, 2H, J=9.06 Hz), 6.52(d, 1H, J=8.37 Hz), 4.89(d, 1H, J .62 Hz), 4.85(d, 1H, J .62 Hz), 4.68(q, 1H, J=6.78 Hz), 4.23(s, 2H), 4.17(q, 2H, J=7.12 Hz), 2.62(s, 2H), 2.19(s, 3H), 1.61(d, 3H, J=6.78 Hz), 1.21(t, 3H, J=7.12 Hz),

4-(Chloromethyl)-2-methylphenyl methyl ether

To a stirred solution of (4-methoxy-3-methylphenyl)methanol (2.31g, 15.18mmoles, 1eq) in anhydrous CH₂Cl₂ (50ml, 0.3M) was added hexachloroethane (3.59g, 15.18mmoles, 1eq) and triphenylphosphine (3.98g, 15.18mmoles, 1eq). This mixture was stirred at room temperature

40

overnight at which point the reaction was transferred to a separatory funnel and washed with H_2O , brine, dried over Na_2SO_4 , filtered, concentrated *in vacuo* and filtered through a plug of silica gel (30% EtOAc/Hexanes) to yield 2.59g (100%) of product.

5 ^1H NMR (CDCl_3) 400MHz δ 7.16(m, 2H), 6.76(d, 1H, $J=8.10$ Hz), 4.52(s, 2H), 3.81(s, 3H), 2.19(s, 3H),

(4-Methoxy-3-methylbenzyl)(triphenyl)phosphonium chloride

10 To a 250ml round-bottom flask equipped with a magnetic stir-bar and N_2 inlet was added 4-(Chloromethyl)-2-methylphenyl methyl ether (2.59g, 15.18mmoles, 1eq), dry toluene (50ml, 0.3M) and triphenylphosphine (3.98g, 15.18mmoles, 1eq). The reaction mixture was refluxed overnight. After cooling to room temperature the solvent was removed *in vacuo*, the residue washed with hexanes and the solid/liquid mixture was filtered to yield 4.48g (71%) of solid product.

15 ^1H NMR (CDCl_3) 400MHz δ 7.66(m, 15H), 6.93(m, 1H), 6.54(m, 2H), 5.24(d, 2H, $J=7.9$ Hz), 3.68(s, 3H), 1.90(s, 3H),

15 **4-[(Tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carbaldehyde**

20 To a stirred mixture of pyridinium chlorochromate (6.9g, 32.12mmoles, 4eq) in dry CH_2Cl_2 (40ml, 0.2M) was added {4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methanol (3.0g, 8.03mmoles, 1eq) in CH_2Cl_2 (10ml). The mixture was stirred at room temperature for 4 hours at which time the reaction mixture was quenched by allowing it to stir with sat. NaHCO_3 . Once the quenching had ceased the reaction was filtered through Celite and the filtrate was transferred to a separatory funnel where the phases were separated. The organic phase was dried over Na_2SO_4 and concentrated *in vacuo* to yield 2.18g (73%) of clean aldehyde. The crude product was used without purification.

25 ^1H NMR (CDCl_3) 400MHz δ 10.39(s, 1H), 8.09(d, 2H, $J=8.28$ Hz), 7.70(d, 2H, $J=8.28$ Hz), 5.22(d, 1H, $J=9.7$ Hz), 4.96(d, 1H, $J=9.7$ Hz), 4.83(m, 1H), 3.87(m, 1H), 3.58(m, 1H), 1.81(m, 2H), 1.61(m, 4H),

30 **5-[(E)-2-(4-Methoxy-3-methylphenyl)ethenyl]-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole**

35 To a suspension of NaH (60% dispersion in mineral oil, 242mg, 6.32mmoles, 1.4eq) in dry CH_2Cl_2 (15ml) was added (4-Methoxy-3-methylbenzyl)(triphenyl)phosphonium chloride (2.62g, 6.32mmoles, 1.4eq). This was allowed to stir at room temperature for 1.5 hours followed by the dropwise addition of 4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-5-carbaldehyde (1.68g, 4.51mmoles, 1eq) in anhydrous carbon tetrachloride (25ml). The resulting reaction mixture was refluxed overnight at which point (after cooling to room temperature) the reaction was washed with 1N NaOH, H_2O , brine, dried over Na_2SO_4 and concentrated *in vacuo* to yield a >100% yield of a light green oil. The crude material was used without purification.

¹H NMR (CDCl₃) 400MHz δ 8.05(d, 2H, J=8.24 Hz), 7.68(d, 2H, J=8.24 Hz), 7.29(m, 3H), 6.85(m, 2H), 4.98(d, 1H, J=12.09 Hz), 4.81(m, 2H), 4.01(m, 1H), 3.86(s, 3H), 3.62(m, 1H), 2.26(s, 3H), 1.72(m, 6H),

5 **{5-[2-(4-Methoxy-3-methylphenyl)ethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methanol**

To a stirred solution of 5-[(E)-2-(4-Methoxy-3-methylphenyl)ethenyl]-4-[(tetrahydro-2H-pyran-2-yloxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (2.20g, 4.51mmoles, 1eq) in EtOH (50ml, 0.1M) was added 10%Pd/C (500mg). The system was degassed using an aspirator and H₂ was introduced via a balloon. The reaction was heated to 60 °C overnight which, after cooling to room temperature, was filtered through Celite, washed with EtOAc and concentrated *in vacuo*. This reaction yielded after chromatography 760mg (41%) of clean alcohol.

¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.24 Hz), 7.66(d, 2H, J=8.24 Hz), 6.91(m, 2H), 6.72(d, 1H, J=8.10 Hz), 4.54(s, 2H), 3.80(s, 3H), 3.11(t, 2H, J=7.42 Hz), 2.87(t, 2H, J=7.42 Hz), 2.18(s, 3H), 2.05(br s, 1H),

15

4-(Bromomethyl)-5-[2-(4-methoxy-3-methylphenyl)ethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole

To a 100ml round-bottom flask equipped with a magnetic stir-bar and N₂ inlet was added {5-[2-(4-Methoxy-3-methylphenyl)ethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methanol (0.708g, 1.74mmoles, 1eq), CH₂Cl₂ (20ml), carbon tetrabromide (0.634g, 1.91mmoles, 1.1eq) and triphenylphosphine (0.501g, 1.91mmoles, 1.1eq) in that order. The reaction was stirred overnight at which time it was diluted with CH₂Cl₂ and washed with H₂O, brine, dried over Na₂SO₄, concentrated *in vacuo* and purified via silica gel chromatography to yield 573mg (70%) of product.

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.10 Hz), 7.64(d, 2H, J=8.10 Hz), 6.94(m, 2H), 6.73(d, 1H, J=8.10 Hz), 4.46(m, 2H), 3.79(m, 3H), 3.12(t, 2H, J= 7.24 Hz), 2.91(t, 2H, J=7.24 Hz), 2.19(s, 3H),

4-(2-(4-(Bromomethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)ethyl)-2-methylphenol

To a 50ml round-bottom flask equipped with a magnetic stir-bar, an addition funnel and N₂ inlet was added 4-(Bromomethyl)-5-[2-(4-methoxy-3-methylphenyl)ethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazole (468mg, 1.0mmoles, 1eq) and dry CH₂Cl₂ (15ml, 0.1M). The mixture was cooled to -78°C (dry ice/acetone) after which boron tribromide (1M in CH₂Cl₂, 3ml, 3.0mmoles, 3eq) was added dropwise over the course of 15minutes. After the addition was complete, the cold bath was removed and the reaction was allowed to warm to room temperature and stirred for 1 hour. After this time, the reaction was cooled to 0 °C and quenched very carefully with water. Once the reaction was quenched, it was transferred to a separatory funnel where the phases were separated. The aqueous fraction was washed three times with CH₂Cl₂ and the combined organic fractions were dried over Na₂SO₄, filtered, concentrated *in vacuo* to yield a quantitative yield of the titled phenol. The product was used without purification.

¹H NMR (CDCl₃) 400MHz δ 7.96(d, 2H, J=8.28 Hz), 7.65(d, 2H, J=8.28 Hz), 6.93(m, 1H), 6.85(d, 1H, J=8.10 Hz), 6.68(d, 1H, J=8.10 Hz), 5.42(br s, 1H), 4.45(s, 2H), 3.10(t, 2H, J=7.41 Hz), 2.89(t, 2H, J=7.41 Hz), 2.20(s, 3H).

5 The following compounds were made by amine displacement as described above for General Alkylation with an Amine:

4-(2-{4-([4-(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenol

10 ¹H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.28 Hz), 7.59(d, 2H, J=8.28 Hz), 6.91(d, 1H, J=2.24 Hz), 6.86(d, 2H, J=9.31 Hz), 6.80(d, 2H, J=9.31 Hz), 6.74(dd, 1H, J=8.10, 2.24 Hz), 6.58(s, 1H), 6.51(d, 1H, J=8.10 Hz), 3.73(s, 3H), 3.58(s, 2H), 3.12(t, 2H, J=7.50 Hz), 3.05(t, 4H, J=4.48 Hz), 2.84(t, 2H, J=7.50 Hz), 2.64(t, 4H, J=4.48 Hz), 2.20(s, 3H),

15 **1-[4-(4-([5-[2-(4-Hydroxy-3-methylphenyl)ethyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl)methyl)-1-piperazinyl]phenyl]ethanone**

10 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.28 Hz), 7.85(d, 2H, J=9.14 Hz), 7.73(d, 2H, J=8.28 Hz), 6.92(d, 2H, J=9.14 Hz), 6.88(d, 1H, J=2.24 Hz), 6.77(dd, 1H, J=8.28, 2.24 Hz), 6.60(d, 1H, J=8.28 Hz), 3.49(s, 2H), 3.32(t, 4H, J=4.83 Hz), 3.18(t, 2H, J=7.07 Hz), 2.88(t, 2H, J=7.07 Hz), 2.51(t, 4H, J=4.83 Hz), 2.47(s, 3H), 2.10(s, 3H),

4-(2-{4-([4-(3-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenol

10 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.10 Hz), 7.72(d, 2H, J=8.10 Hz), 7.09(t, 1H, J=8.28 Hz), 6.88(s, 1H), 6.77(dd, 1H, J=8.45, 2.24 Hz), 6.59(d, 1H, J=8.45 Hz), 6.51(dd, 1H, J=8.28, 2.24 Hz), 6.46(t, 1H, J=2.24 Hz), 6.38(dd, 1H, J=8.28, 2.24 Hz), 3.72(s, 3H), 3.49(s, 2H), 3.18(t, 2H, J=6.47 Hz), 3.09(br s, 4H), 2.87(t, 2H, J=6.47 Hz), 2.52(br s, 4H), 2.10(s, 3H),

30 **4-(2-{4-([4-(4-Chlorophenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenol**

10 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.10 Hz), 7.73(d, 2H, J=8.10 Hz), 7.15(d, 2H, J=9.14 Hz), 6.89(m, 3H), 6.77(dd, 1H, J=8.45, 2.41 Hz), 6.59(d, 1H, J=8.45 Hz), 3.49(s, 2H), 3.18(t, 2H, J=7.16 Hz), 3.09(t, 4H, J=5.09 Hz), 2.87(t, 2H, J=7.16 Hz), 2.53(t, 4H, J=5.09 Hz), 2.10(s, 3H),

35 **2-[4-(2-{4-([4-(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenoxy]-2-methylpropanoic acid**

40 To a 25ml round-bottom flask equipped with a magnetic stir-bar and N₂ inlet was added 4-(2-{4-([4-(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenol (53mg, 0.094mmoles, 1eq) in acetone (2ml, 0.05M) followed by the addition of 2-trichloromethyl-2-propanol (33mg, 0.188mmoles, 2eq) and NaOH (pellets, 30mg, 0.752mmoles, 8eq). This was stirred at room temperature overnight after which the acetone was removed *in vacuo* and the

resulting residue was partitioned between EtOAc and 1N HCl. The phases were then separated and the organic fraction was washed with brine, dried over Na_2SO_4 and concentrated *in vacuo* to yield after chromatography 23mg (40%) of product.

5 ^1H NMR (CDCl_3) 400MHz δ 7.95(d, 2H, $J=8.28$ Hz), 7.62(d, 2H, $J=8.28$ Hz), 6.88(m, 5H),
6.67(br s, 1H), 6.54(br s, 1H), 3.72(s, 3H), 3.61(s, 2H), 3.23(m, 8H), 2.80(m, 4H), 2.15(s, 3H), 1.54(s, 6H),
MS(ES⁺) M+H= 652.2

10 The following compounds were also made by alkylation of a phenol with trichloromethyl-2-propanol as above:

2-[4-(2-{[4-(4-Chlorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenoxy]-2-methylpropanoic acid

15 ^1H NMR (CD_3OD) 400MHz δ 7.99(d, 2H, $J=8.28$ Hz), 7.66(d, 2H, $J=8.28$ Hz), 7.55(s, 1H),
7.14(d, 2H, $J=8.10$ Hz), 6.91(s, 1H), 6.82(d, 2H, $J=8.10$ Hz), 6.66(br s, 1H), 3.55(s, 2H), 3.28(m, 2H) buried under MeOH signal, 3.12(br s, 4H), 2.85(s, 2H), 2.65(br s, 4H), 2.13(s, 3H), 1.52(s, 6H),
MS(ES⁺) M+H= 659.0

2-[4-(2-{[4-(3-Methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenoxy]-2-methylpropanoic acid

20 ^1H NMR (CD_3OD) 400MHz δ 8.02(d, 2H, $J=8.10$ Hz), 7.68(d, 2H, $J=8.10$ Hz), 7.09(t, 1H, $J=8.10$ Hz), 6.92(s, 1H), 6.76(m, 2H), 6.50(dd, 1H, $J=8.10, 2.07$ Hz), 6.42(t, 1H, $J=2.07$ Hz), 6.37(dd, 1H, $J=8.10, 2.07$ Hz), 3.72(s, 3H), 3.51(s, 2H), 3.28(m, 2H) buried under MeOH signal, 3.12(m, 4H), 2.83(t, 2H, $J=7.16$ Hz), 2.61(m, 4H), 2.15(s, 3H), 1.48(s, 6H),
MS(ES⁺) M+H= 652.1

2-[4-(2-{[4-(4-Acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}ethyl)-2-methylphenoxy]-2-methylpropanoic acid

30 ^1H NMR (CD_3OD) 400MHz δ 8.01(d, 2H, $J=8.10$ Hz), 7.82(d, 2H, $J=9.14$ Hz), 7.67(d, 2H, $J=8.10$ Hz), 6.90(m, 3H), 6.66(m, 2H), 3.61(s, 2H), 3.37(br s, 4H), 3.13(t, 2H, $J=6.81$ Hz), 2.82(t, 2H, $J=6.81$ Hz), 2.68(br s, 4H), 2.44(s, 3H), 2.11(s, 3H), 1.50(s, 6H),

2-Methyl-2-[2-methyl-4-[(4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid

35 From 2-methyl-4-[(4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.021g, 0.04 mmol), 2-methyl-2-[2-methyl-4-[(4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid (0.006g, 25%) was obtained as a white solid.

40 ^1H NMR (CD_3OD): δ 8.02 (d, 2 H), 7.78 (d, 2 H), 7.60 (d, 2 H), 7.30 (d, 2 H), 7.23 (s, 1 H), 7.16 (d, 1 H), 6.73 (d, 1 H), 4.29 (s, 2 H), 4.00 (s, 2 H), 2.17 (s, 3H), 1.61 (s, 6 H); ^{19}F NMR (CD_3OD): δ -

64.18 (s), -64.73 (s); MS *m/z* 626 (M+1); HPLC RT 4.273 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

2-Methyl-2-[2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid

From 2-methyl-4-[(4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.048g, 0.086 mmol), 2-methyl-2-[2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid (0.013g, 23%) was obtained as a white solid.

10 ¹H NMR (CD₃OD): δ 8.04 (d, 2 H), 7.74 (d, 2 H), 7.20 (m, 6 H), 6.72 (d, 1 H), 4.26 (s, 2 H), 3.95 (s, 2 H), 2.15 (s, 3 H), 1.61 (s, 6 H); ¹⁹F NMR (CD₃OD): δ -59.86 (s), -64.72 (s); MS *m/z* 642 (M+1); HPLC RT 4.307 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

2-[4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy-2-methylpropanoic acid

From 4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol (0.022g, 0.04 mmol), 2-[4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy-2-methylpropanoic acid (0.003g, 12%) was obtained as a white solid.

20 ¹H NMR (CD₃OD): δ 8.04 (d, 2 H), 7.76 (d, 2 H), 7.19 (s, 1 H), 7.14 (d, 1 H), 7.02 (d, 2 H), 6.81 (d, 2 H), 6.69 (d, 1 H), 4.21 (s, 2 H), 3.83 (s, 2 H), 3.78 (s, 3 H), 2.17 (s, 3 H), 1.60 (s, 6 H); MS *m/z* 588 (M+1); HPLC RT 4.136 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

25 **2-Methyl-2-[2-methyl-4-[(4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid**

From 2-methyl-4-[(4-(4-methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenol (0.296g, 0.57 mmol), 2-methyl-2-[2-methyl-4-[(4-[4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid (0.087g, 25%) was obtained as a white solid.

30 ¹H NMR (CD₃OD): δ 8.04 (d, 2 H), 7.78 (d, 2 H), 7.13 (m, 6 H), 6.70 (d, 1 H), 4.22 (s, 2 H), 3.87 (s, 2 H), 2.47 (s, 3 H), 2.15 (s, 3 H), 1.60 (s, 6 H); MS *m/z* 604 (M+1); HPLC RT 4.220 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

35 **2-[4-[(4-(4-*tert*-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy-2-methylpropanoic acid**

From 4-[(4-(4-*tert*-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenol (0.113g, 0.21 mmol), 2-[4-[(4-(4-*tert*-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy-2-methylpropanoic acid (0.012g, 9%) was obtained as a white solid.

¹H NMR (CD₃OD): δ 8.04 (d, 2 H), 7.76 (d, 2 H), 7.29 (d, 2 H), 7.22 (s, 1 H), 7.16 (d, 1 H), 7.03 (d, 2 H), 6.74 (d, 1 H); MS m/z 614 (M+1); HPLC RT 4.464 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

5 **2-Methyl-2-{2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid**

From 2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanylphenol (0.072g, 0.15 mmol), 2-methyl-2-{2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid (0.039g, 46%) was obtained as a cream solid.

10 ¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.76 (d, 2 H), 7.37 (t, 1 H), 7.20 (s, 1 H), 7.15 (d, 1 H), 7.02 (s, 1 H), 6.96 (d, 1 H), 6.70 (d, 1 H), 4.23 (s, 2 H), 3.96 (s, 2 H), 2.20 (s, 3 H), 1.60 (s, 6 H); MS m/z 564 (M+1); HPLC RT 4.112 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

15 **Ethyl 2-{2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate**

From 2-methyl-4-[(4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanylphenol (0.17g, 0.31 mmol), ethyl 2-{2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate (0.17g, 83%) was obtained as a white solid. MS m/z 656 (M+1); HPLC RT 4.553 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

25 **Methyl {2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetate**

From 2-methyl-4-[(4-(4-trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanylphenol (0.17g, 0.31 mmol), methyl {2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetate (0.15g, 80%) was obtained as a white solid. MS m/z 628 (M+1); HPLC RT 4.398 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

30 **Ethyl 2-{2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate**

From 2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanylphenol, ethyl 2-{2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoate (0.225g, 0.47 mmol), (0.255g, 91%) was obtained as a yellow oil.

MS m/z 578 (M+1); HPLC RT 4.412 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

40 **Methyl {2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetate**

From 2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanylphenol, methyl {2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanylphenoxy}acetate (0.225g, 0.47 mmol, (0.259g, 94%) was obtained as a yellow oil.

5 MS *m/z* 550 (M+1); HPLC RT 4.243 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

The following 2compounds were made by the Mitsunobu reaction of 4-[(4-[(4-(4-Methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl-10 methylphenol with R and S Methyl lactate:

Methyl (2S)-2-[4-[(4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoate

15 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.21(d, 1H, J=2.20 Hz), 7.11(dd, 1H, J=8.42, 2.20 Hz), 6.86(d, 2H, J=9.16 Hz), 6.80(d, 2H, J=9.16 Hz), 6.54(d, 1H, J=8.42 Hz), 4.70(q, 1H, J=6.78 Hz), 4.30(s, 2H), 3.74(s, 3H), 3.69(s, 3H), 3.55(s, 2H), 3.06(br s, 4H), 2.62(br s, 4H), 2.21(s, 3H), 1.60(d, 3H, J=6.78 Hz),

Methyl (2R)-2-[4-[(4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoate

20 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.64(d, 2H, J=8.24 Hz), 7.22(d, 1H, J=2.01 Hz), 7.12(dd, 1H, J=8.42, 2.01 Hz), 6.88(d, 2H, J=9.16 Hz), 6.80(d, 2H, J=9.16 Hz), 6.55(d, 1H, J=8.42 Hz), 4.70(q, 1H, J=6.78 Hz), 4.32(s, 2H), 3.73(s, 3H), 3.69(s, 3H), 3.55(s, 2H), 3.06(t, 4H, J=4.76 Hz), 2.61(br s, 4H), 2.22(s, 3H), 1.60(d, 3H, J=6.78 Hz),

2-[4-[(4-[(4-(4-Methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}-2-methylpropanoic acid

25 To a stirred solution of ethyl 2-[4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}-2-methylpropanoate (77.0g, 0.112moles, 1eq) in THF (600ml, 0.19M) was added MeOH (50ml) and a 1N LiOH solution (6.18g in 250ml H₂O, 2.3eq). The mixture was refluxed for 5 hrs after which the THF was removed *in vacuo*. The residue was diluted with EtOAc and to it was added 1N HCl until a pH of about 5 was reached. The phases were separated and the organic fraction was concentrated *in vacuo*, then titrated with Isopropyl acetate twice which was subsequently removed *in vacuo* each time. The crude product was 35 then recrystallized from EtOH to yield 52g (71%) of a white solid.

¹H NMR (CD₃OD) 400MHz δ 8.08(d, 2H, J=8.24 Hz), 7.75(d, 2H, J=8.24 Hz), 7.25(d, 2H, J=8.61 Hz), 6.94(d, 2H, J=9.16 Hz), 6.82(m, 4H), 4.28(s, 2H), 3.72(s, 3H), 3.59(s, 2H), 3.16(t, 4H, J=4.94 Hz), 2.96(t, 4H, J=4.94 Hz), 1.54(s, 6H),

40 CHN Analysis: Theory (C, 60.26%; H, 5.21%; N, 6.39%) Found (C, 60.11%; H, 5.31%; N, 6.23%)

HPLC (C-18, 3μm) 0%-95% Acetonitrile/Water over 8 minutes R_f= 5.48minutes

{4-[({4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2,5-dimethylphenoxy}acetic acid

5 Mass spec: calculated for $C_{28}H_{24}F_3NO_3S_2$: 543. Found: 544 (MH^+). HPLC trace: retention time = 13.5 min (Alltima C₁₈, 5 micron, 250mm column, Gradient elution with 70-100% CH₃CN/H₂O).

2-[{4-[({4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

10 Elemental analysis calculated for $C_{28}H_{24}F_3NO_3S_2$: C: 61.8%, H: 4.5%, N: 2.6%. Found: C: 61.77%, H: 4.64%, N: 2.51%. HPLC trace: retention Time .7 min (Alltima C₁₈, 5 micron, 250 mm column, gradient elution with 70-100% CH₃CN/H₂O).

2-[{4-[({4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2,3-dimethylphenoxy}propanoic acid

15 Elemental analysis calculated for $C_{29}H_{26}F_3NO_3S_2$: C: 62.4%, H: 4.7%, N: 2.5%. Found: C: 62.58%, H: 4.93%, N: 2.44%. HPLC trace: retention time= 14.7 min (Alltima C₁₈, 5 micron, 250 mm column using gradient elution with 70-100%CH₃CN/H₂O).

2-[{4-[({4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-fluorophenoxy}propanoic acid

20 Mass spec calculated for $C_{27}H_{21}F_4NO_3S_2$: 547. Found: 548 (MH^+). HPLC, Trace: retention time = 12.1 min (Alltima C₁₈, 5 micron, 250 mm column using gradient elution with 70-100% CH₃CN/H₂O).

25 **(2S)-2-[{4-[({4-(4-Methoxyphenyl)-1-piperazinyl}methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid**

1H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.24 Hz), 7.74(d, 2H, J=8.24 Hz), 7.19(d, 1H, J=2.20 Hz), 7.09(dd, 1H, J=8.42, 2.20 Hz), 6.91(d, 2H, J=9.16 Hz), 6.80(d, 2H, J=9.16 Hz), 6.62(d, 1H, J=8.42 Hz), 4.68(q, 1H, J=6.78 Hz), 4.28(s, 2H), 3.71(s, 3H), 3.48(s, 2H), 3.05(t, 4H, J=4.76 Hz), 2.69(t, 4H, J=4.76 Hz), 2.18(s, 3H), 1.57(d, 3H, J=6.78 Hz),
30 Chiral HPLC (Chiralpak, 2cm) 75% Carbon Dioxide/25% Methanol over 65minutes R_t@.88 minutes

35 **(2R)-2-[{4-[({4-(4-Methoxyphenyl)-1-piperazinyl}methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid**

1H NMR (CD₃OD) 400MHz δ 8.11(d, 2H, J=8.24 Hz), 7.76(d, 2H, J=8.24 Hz), 7.15(d, 1H, J=2.20 Hz), 7.08(dd, 1H, J=8.42, 2.20 Hz), 6.93(d, 2H, J=9.16 Hz), 6.82(d, 2H, J=9.16 Hz), 6.67(d, 1H, J=8.42 Hz), 4.57(q, 1H, J=6.78 Hz), 4.24(s, 2H), 3.71(s, 3H), 3.54(s, 2H), 3.17(t, 4H, J=4.76 Hz), 3.02(t, 4H, J=4.76 Hz), 2.18(s, 3H), 1.55(d, 3H, J=6.78 Hz),
40 Chiral HPLC (Chiralpak, 2cm) 75% Carbon Dioxide/25% Methanol over 65minutes R_t.58 minutes

2-(4-[(2-(4-Fluorophenyl)-4-[(4-methoxyphenyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methyl]sulfanyl)-2-methylphenoxy)-2-methylpropanoic acid

5 ¹H NMR (CD₃OD) 400MHz δ 7.95(m, 2H), 7.18(m, 3H), 7.05(br s, 1H), 6.93(d, 2H, J=8.61 Hz), 6.81(d, 2H, J=8.61 Hz), 6.69(br s, 1H), 4.22(s, 2H), 3.72(s, 3H), 3.55(s, 2H), 3.17(br s, 4H), 2.93(br s, 4H), 2.14(s, 3H), 1.59(s, 6H),

[4-((4-Benzyl-1-piperazinyl)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl)-2-methylphenoxy]acetic acid

10 ¹H (CD₃OD) 300MHz δ 8.15(d, 2H, J=8.23 Hz), 7.81(d, 2H, J=8.23 Hz), 7.48(m, 5H), 7.24(s, 2H), 6.74(s, 1H), 4.55(s, 2H), 4.28(s, 2H), 4.15(s, 2H), 3.46(s, 2H), 3.06(s, 4H), 2.49(s, 4H), 2.09(s, 3H) . MS(ES⁻) M-H= 625.98. TLC(10% MeOH/CH₂Cl₂) R_f = 0.35

{2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-methyl-1-piperidinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetic acid

15 ¹H (CD₃OD) 300MHz δ 8.20(d, 2H, J=7.97 Hz), 7.85(d, 2H, J=7.97 Hz), 7.27(s, 1H), 7.08(s, 1H), 6.68(s, 1H), 4.62(s, 2H), 4.29(s, 2H), 3.70(s, 2H), 2.86(s, 2H), 2.26(s, 3H), 1.90(s, 2H), 1.48(m, 5H), 1.06(s, 3H) . MS(ES⁻) M-H= 548.91. TLC(10% MeOH/CH₂Cl₂) R_f = 0.24

20 [2-Methyl-4-((4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid

1 ¹H (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.03 Hz), 7.93(d, 2H, J=8.89 Hz), 7.70(d, 2H, J=8.03 Hz), 7.19(d, 1H, J=2.22 Hz), 7.07(dd, 1H, J=8.37, 2.22 Hz), 6.96(d, 2H, J=8.89 Hz), 6.53(d, 1H, J=8.37 Hz), 4.88(s, 2H), 4.64(s, 2H), 4.27(s, 2H), 2.65(s, 3H), 2.17(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.13. MS(ES⁻) M-H= 625.92

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[2-Methyl-4-((4-(3-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid

1 ¹H (CDCl₃) 400MHz δ 8.04(d, 2H, J=8.20 Hz), 7.69(m, 3H), 7.37(s, 2H), 7.16(dd, 1H, J=8.20, 2.22 Hz), 7.05(dd, 1H, J=8.20, 2.22 Hz), 6.91(d, 1H, J=2.22 Hz), 6.62(d, 1H, J=8.20 Hz), 4.72(s, 2H), 4.43(s, 2H), 4.19(s, 2H), 2.73(s, 3H), 2.09(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.13. MS(ES⁻) M-H= 625.86

(2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-(2-methylphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)acetic acid

35 ¹H (CDCl₃) 400MHz δ 8.10(d, 2H, J=8.03 Hz), 7.73(d, 2H, J=8.03 Hz), 7.16(m, 4H), 7.01(br s, 2H), 6.73(d, 1H, J=8.37 Hz), 4.79(s, 2H), 4.08(s, 2H), 3.80(m, 4H), 3.53(m, 2H), 3.24(m, 4H), 2.40(s, 3H), 2.18(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES⁻) M-H= 625.94

40 [4-((4-(4-Methoxyphenyl)-1-piperazinyl)methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl)-2-methylphenoxy]acetic acid

¹H (CDCl₃) 400MHz δ 8.04(d, 2H, J=8.20 Hz), 7.72(d, 2H, J=8.20 Hz), 7.12(s, 1H), 6.96(m, 3H), 6.81(d, 2H, J=8.89 Hz), 6.74(d, 1H, J=8.37 Hz), 4.76(s, 2H), 4.05(s, 2H), 3.74(s, 3H), 3.38(m, 10H), 2.16(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.13. MS(ES⁻) M-H= 641.90

5 (2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-(3-methylphenyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methyl]sulfanyl)phenoxy)acetic acid

¹H (CDCl₃) 400MHz δ 8.05(d, 2H, J=8.20 Hz), 7.72(d, 2H, J=8.20 Hz), 7.20(s, 1H), 7.06(d, 2H, J=9.06 Hz), 6.91(m, 3H), 6.72(d, 1H, J=8.37 Hz), 4.77(s, 2H), 4.06(s, 2H), 3.54(br s, 8H), 3.27(s, 2H), 2.30(s, 3H), 2.16(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES⁻) M-H= 625.99

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(2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-(4-methylphenyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methyl]sulfanyl)phenoxy)acetic acid

¹H (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.20 Hz), 7.71(d, 2H, J=8.20 Hz), 7.02(m, 6H), 6.71(d, 1H, J=8.55 Hz), 4.76(s, 2H), 4.08(s, 2H), 3.52(br s, 8H), 3.31(s, 2H), 2.27(s, 3H), 2.16(s, 3H) .

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TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES⁻) M-H= 625.94

[4-((4-(2-Furoyl)-1-piperazinyl)methyl)-2-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl)-2-methylphenoxy)acetic acid

¹H (CDCl₃) 400MHz δ 8.02(d, 2H, J=8.20 Hz), 7.71(d, 2H, J=8.20 Hz), 7.48(d, 1H, J=2.05 Hz), 7.16(dd, 1H, J=8.20, 2.05 Hz), 7.07(m, 1H), 6.90(d, 1H, J=2.39 Hz), 6.74(d, 1H, J=8.20 Hz), 6.49(m, 1H), 4.77(s, 2H), 4.62(s, 2H), 4.05(s, 2H), 3.46(s, 2H), 3.27(s, 2H), 3.05(br s, 4H), 2.15(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES⁻) M-H= 629.83

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(2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-(2-pyridinyl)-1-piperazinyl]methyl]-1,3-thiazol-5-yl)methyl]sulfanyl)phenoxy)acetic acid

¹H (CDCl₃) 400MHz δ 8.22(m, 1H), 7.99(d, 2H, J=8.20 Hz), 7.68(d, 2H, J=8.20 Hz), 7.60(s, 1H), 7.20(dd, 1H, J=8.37, 2.39 Hz), 7.14(s, 1H), 6.76(m, 1H), 6.68(m, 1H), 4.68(s, 2H), 4.14(s, 2H), 3.72(br s, 4H), 3.59(s, 2H), 2.87(br s, 4H), 2.17(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES⁻) M-H= 612.99

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[4-((4-(4-Chlorobenzyl)-1-piperazinyl)methyl)-2-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl)-2-methylphenoxy)acetic acid

¹H (CDCl₃) 400MHz δ 8.04(d, 2H, J=8.20 Hz), 7.70(d, 2H, J=8.20 Hz), 7.41(m, 4H), 7.14(m, 1H), 7.03(m, 1H), 6.69(d, 1H, J=8.37 Hz), 4.72(s, 2H), 4.02(s, 2H), 3.18(m, 12H), 2.10(s, 3H) .

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TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES⁻) M-H= 659.78

[4-((4-(4-acetylphenyl)-1-piperazinyl)methyl)-2-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl)-2-methylphenoxy)acetic acid

¹H (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.03 Hz), 7.85(d, 2H, J=8.89 Hz), 7.70(d, 2H, J=8.03 Hz), 7.16(dd, 1H, J=8.37, 2.22 Hz), 6.86(m, 3H), 6.75(d, 1H, J=8.37 Hz), 4.77(s, 2H), 4.04(s, 2H),

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3.80(m, 4H), 3.45(m, 4H), 3.29(s, 2H), 2.51(s, 3H), 2.17(s, 3H) . TLC(5% MeOH/CH₂Cl₂) R_f = 0.10. MS(ES) M-H= 653.99

5 (4-[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy)acetic acid

¹H NMR (CDCl₃) 400MHz δ 9.94(s, 1H), 7.84(m, 2H), 7.41(m, 3H), 7.11(d, 1H, J=2.22 Hz), 7.06(dd, 1H, J=8.37, 2.22 Hz), 6.79(m, 4H), 6.60(d, 1H, J=8.37 Hz), 4.54(s, 2H), 4.18(s, 2H), 3.76(s, 2H), 3.22(m, 8H), 2.18(s, 3H) . HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.67 min

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10 2-{4-[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CDCl₃) 400MHz δ 9.69(s, 1H), 7.96(d, 2H, J=8.20 Hz), 7.65(d, 2H, J=8.20 Hz), 7.07(d, 1H, J=2.05 Hz), 7.02(dd, 1H, J=8.55, 2.05 Hz), 6.87(d, 2H, J=9.23 Hz), 6.80(d, 2H, J=9.23 Hz), 6.66(d, 1H, J=8.55 Hz), 4.66(q, 1H, J=6.95 Hz), 4.10(d, 1H, J .70 Hz), 4.05(d, 1H, J .70 Hz), 3.74(s, 3H), 3.57(d, 1H, J .18 Hz), 3.51(d, 1H, J .18 Hz), 3.15(br s, 4H), 2.96(br s, 4H), 2.17(s, 3H), 1.59(d, 3H, J=6.95 Hz) . HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.91 min

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20 2-(4-[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy)propanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.81(m, 2H), 7.34(m, 3H), 7.09(m, 1H), 6.90(m, 1H), 6.79(m, 4H), 6.48(d, 1H, J=8.37 Hz), 4.35(m, 1H), 4.16(s, 2H), 3.70(s, 3H), 3.32(s, 2H), 3.00(m, 4H), 2.60(m, 4H), 2.09(s, 3H), 1.34(m, 3H) . HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.78 min

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30 {2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-phenyl-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}acetic acid

¹H (CD₃OD) 300MHz δ 8.16(d, 2H, J=8.49 Hz), 7.81(d, 2H, J=8.49 Hz), 7.26(br s, 3H), 7.09(br s, 1H), 6.98(d, 2H, J=7.96 Hz), 6.88(m, 1H), 6.66(br s, 1H), 4.57(s, 2H), 4.29(s, 2H), 3.55(s, 2H), 3.26(br s, 4H), 2.91(br s, 4H), 2.23(s, 3H) . MS(ES) M-H= 611.85. TLC(10% MeOH/CH₂Cl₂) R_f = 0.30

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35 [4-[(4-[(4-Ethoxycarbonyl)-1-piperazinyl]methyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]acetic acid

¹H (CD₃OD) 300MHz δ 8.14(d, 2H, J=8.23 Hz), 7.81(d, 2H, J=8.23 Hz), 7.26(s, 1H), 7.12(s, 1H), 6.71(s, 1H), 4.63(s, 2H), 4.32(s, 2H), 4.16(q, 2H, J=7.08 Hz), 3.55(br s, 4H), 3.44(s, 2H), 2.60(br s, 4H), 2.25(s, 3H), 1.30(t, 3H, J=7.08 Hz) . MS(ES) M-H= 607.86. TLC(10% MeOH/CH₂Cl₂) R_f = 0.28

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{2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(4-phenyl-1-piperidinyl)methyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid

5 ^1H (CD₃OD) 300MHz δ 8.14(d, 2H, J=8.23 Hz), 7.77(d, 2H, J=8.23 Hz), 7.28(s, 7H), 6.75(d, 1H, J=8.23 Hz), 4.45(s, 2H), 4.34(s, 2H), 3.53(s, 2H), 3.08(m, 2H), 2.57(m, 1H), 2.35(m, 2H), 2.22(s, 3H), 1.80(m, 4H). MS(ES⁻) M-H= 610.91. TLC(10% MeOH/CH₂Cl₂) R_f = 0.30

[4-({[4-[(Cyclopropylmethyl)amino]methyl}-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy]acetic acid

10 ^1H NMR 300MHz δ 8.08(d, 2H, J=8.20 Hz), 7.74(d, 2H, J=8.20 Hz), 7.14(dd, 1H, J=8.49, 2.39 Hz), 7.01(s, 1H), 6.72(d, 1H, J=8.49 Hz), 4.77(s, 2H), 4.03(s, 2H), 3.29(s, 2H), 2.77(d, 2H, J=7.43 Hz), 2.17(s, 3H), 1.17(m, 1H), 0.62(m, 2H), 0.28(m, 2H). MS(ES⁻) M-H= 520.90. HPLC(C-18, 3 μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.67 min

15 **{2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(pentylamino)methyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid**

20 ^1H NMR 300MHz δ 8.06(d, 2H, J=8.23 Hz), 7.69(d, 2H, J=8.23 Hz), 7.05(m, 2H), 6.66(d, 1H, J=8.23 Hz), 4.67(s, 2H), 4.06(s, 2H), 3.35(s, 2H), 2.78(t, 2H, J=6.64 Hz), 2.17(s, 3H), 1.71(m, 2H), 1.22(m, 4H), 0.83(t, 3H, J=6.64 Hz). MS(ES⁻) M-H= 536.90. HPLC(C-18, 3 μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.80 min

25 **4-({[4-[(4-(2-Hydroxyethyl)-1-piperazinyl)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetic acid**

20 ^1H NMR (CD₃OD) 300MHz δ 8.16(d, 2H, J=8.23 Hz), 7.80(d, 2H, J=8.23 Hz), 7.26(m, 2H), 6.80(d, 1H, J=8.49 Hz), 4.76(s, 2H), 4.40(s, 2H), 3.95(m, 2H), 3.84(s, 2H), 3.54(br s, 4H), 3.33(m, 2H), 3.20(br s, 4H), 2.22(s, 3H). HPLC(C-18, 3 μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.48 min

30 **(2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[(3-pyridinylmethyl)amino]methyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid**

35 ^1H NMR (CDCl₃) 300MHz δ 8.58(d, 1H, J=1.59 Hz), 8.48(dd, 1H, J=4.78, 1.59 Hz), 8.03(m, 3H), 7.66(d, 2H, J=8.23 Hz), 7.24(m, 1H), 7.06(d, 1H, J=2.39 Hz), 6.99(d, 1H, J=2.39 Hz), 6.59(d, 1H, J=8.49 Hz), 4.61(s, 2H), 4.04(s, 2H), 3.93(s, 2H), 3.28(s, 2H), 2.13(s, 3H). MS(ES⁻) M-H= 557.80. HPLC(C-18, 3 μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.44 min

35 **[4-({[4-[(3-Hydroxy-1-piperidinyl)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetic acid**

1 ^1H NMR (CDCl₃) 300MHz δ 8.00(d, 2H, J=8.37 Hz), 7.69(d, 2H, J=8.37 Hz), 7.23(dd, 1H, J=8.55, 2.20 Hz), 6.94(d, 1H, J=2.20 Hz), 6.69(d, 1H, J=8.55 Hz), 4.68(s, 2H), 4.21(s, 2H), 3.16(m,

7H), 2.12(s, 3H), 1.63(m, 4H). MS(ES⁻) M-H= 550.8. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.58 min

5 **[4-({[4-[(4-Hydroxy-1-piperidinyl)methyl]-2-(4-(trifluoromethyl)phenyl}-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]acetic acid**

10 ¹H NMR (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.23 Hz), 7.65(d, 2H, J=8.23 Hz), 7.11(m, 2H), 6.58(d, 1H, J=8.23 Hz), 4.53(s, 2H), 4.18(s, 2H), 3.86(br s, 1H), 3.62(m, 2H), 3.12(m, 2H), 2.95(m, 2H), 2.15(s, 3H), 2.04(m, 2H), 1.77(m, 2H). HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.54 min

15 **[4-({[4-[(2-hydroxymethyl)-1-piperidinyl]methyl]-2-(4-(trifluoromethyl)phenyl}-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]acetic acid**

20 MS(ES⁻) M-H= 564.94. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.66 min

15 **[4-({[4-[(Hydroxymethyl)-1-piperidinyl]methyl]-2-(4-(trifluoromethyl)phenyl}-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]acetic acid**

25 ¹H NMR (CDCl₃) 400MHz δ 7.94(d, 2H, J=8.20 Hz), 7.64(d, 2H, J=8.20 Hz), 7.13(dd, 1H, J=8.55, 2.39 Hz), 7.06(d, 1H, J=2.39 Hz), 6.58(d, 1H, J=8.55 Hz), 4.60(s, 2H), 4.45(s, 2H), 4.18(s, 2H), 3.56(m, 6H), 2.75(br s, 1H), 2.11(s, 3H), 1.68(m, 4H). MS(ES⁻) M-H= 564.93. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.56 min

30 **[2-Methyl-4-({[2-(4-(trifluoromethyl)phenyl)-4-(4-morpholinylmethyl)-1,3-thiazol-5-yl]methyl]sulfanyl)phenoxy]acetic acid**

35 ¹H NMR (CD₃OD) 300MHz δ 8.11(d, 2H, J=8.23 Hz), 7.79(d, 2H, J=8.23 Hz), 7.25(br s, 1H), 7.17(dd, 1H, J=8.23, 2.39 Hz), 6.74(d, 1H, J=8.23 Hz), 4.46(s, 2H), 4.32(s, 2H), 3.69(br s, 4H), 3.47(s, 2H), 2.50(br s, 4H), 2.23(s, 3H). MS(ES⁻) M-H= 536.43. TLC(20% MeOH/CH₂Cl₂) R_f= 0.39

30 **[4-({[4-[(Cyclohexylamino)methyl]-2-(4-(trifluoromethyl)phenyl}-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]acetic acid**

40 ¹H NMR (CDCl₃) 400MHz δ 8.01(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.04(m, 2H), 6.61(d, 1H, J=8.20 Hz), 4.64(s, 2H), 4.14(s, 2H), 3.39(s, 2H), 2.86(m, 1H), 2.14(s, 3H), 2.01(m, 2H), 1.73(m, 2H), 1.48(m, 4H), 1.08(m, 2H). MS(ES⁻) M-H= 548.7-. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.75 min

35 **[2-Methyl-4-({[4-[(2-methylcyclohexyl)amino]methyl]-2-(4-(trifluoromethyl)phenyl}-1,3-thiazol-5-yl]methyl]sulfanyl)phenoxy]acetic acid**

40 ¹H NMR 400MHz δ 7.98(d, 2H, J=8.20 Hz), 7.68(d, 2H, J=8.20 Hz), 7.09(dd, 1H, J=8.37, 2.39 Hz), 6.98(d, 1H, J=2.39 Hz), 6.65(d, 1H, J=8.37 Hz), 4.66(s, 2H), 4.15(d, 1H, J .70 Hz), 4.00(d, 1H, J .70 Hz), 3.53(d, 1H, J .04 Hz), 3.33(d, 1H, J .04 Hz), 2.53(m, 1H), 2.10(s, 3H), 1.74(m, 7H), 1.37(m,

2H), 1.03(d, 3H, J=6.32 Hz). MS(ES⁻) M-H= 562.80. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.87 min

5 **[2-Methyl-4-({[4-[(3-methylcyclohexyl)amino]methyl}-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid**
¹H NMR 400MHz δ 8.01(d, 2H, J=8.20 Hz), 7.68(d, 2H, J=8.20 Hz), 7.05(m, 2H), 6.62(d, 1H, J=8.37 Hz), 4.68(s, 2H), 4.29(s, 2H), 3.32(s, 2H), 2.90(m, 1H), 2.15(s, 3H), 2.00(m, 5H), 1.56(m, 4H), 0.89(d, 3H, J=6.32 Hz). MS(ES⁻) M-H= 562.9. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.85 min

10 **[2-Methyl-4-({[4-[(4-methylcyclohexyl)amino]methyl}-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid**
¹H NMR 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.64(d, 2H, J=8.20 Hz), 7.02(m, 2H), 6.59(d, 1H, J=8.03 Hz), 4.58(s, 2H), 4.16(s, 2H), 3.44(s, 2H), 2.90(br s, 1H), 2.12(s, 3H), 2.01(m, 3H), 1.62(m, 6H), 0.90(d, 3H, J=6.84 Hz). MS(ES⁻) M-H= 562.90. HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run R_f=2.85 min

15 **[2-Methyl-4-({[4-[(2-methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid**
¹H (CDCl₃) 300MHz δ 8.03(d, 2H, J=8.23 Hz), 7.72(d, 2H, J=8.23 Hz), 7.17(m, 4H), 6.91(m, 2H), 6.59(d, 1H, J=8.49 Hz), 4.96(s, 2H), 4.67(s, 2H), 2.25(s, 3H), 2.21(s, 3H). MS(ES⁻) M-H= 557.8

20 **[2-Methyl-4-({[4-[(3-methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid**
¹H (CDCl₃) 300MHz δ 8.06(d, 2H, J=8.23 Hz), 7.73(d, 2H, J=8.23 Hz), 7.26(dd, 1H, J=2.39, 0.53 Hz), 7.20(t, 1H, J=7.83 Hz), 7.12(ddd, 1H, J=8.49, 2.39, 0.53 Hz), 6.80(m, 3H), 6.61(d, 1H, J=8.49 Hz), 4.86(s, 2H), 4.67(s, 2H), 4.32(s, 2H), 2.36(s, 3H), 2.23(s, 3H). MS(ES⁻) M-H= 557.83

25 **[2-Methyl-4-({[4-[(4-Methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid**
¹H (CDCl₃) 300MHz δ 8.06(d, 2H, J=8.23 Hz), 7.73(d, 2H, J=8.23 Hz), 7.26(dd, 1H, J=2.39, 0.53 Hz), 7.20(t, 1H, J=7.83 Hz), 7.12(ddd, 1H, J=8.49, 2.39, 0.53 Hz), 6.80(m, 3H), 6.61(d, 1H, J=8.49 Hz), 4.86(s, 2H), 4.67(s, 2H), 4.32(s, 2H), 2.36(s, 3H), 2.23(s, 3H). MS(ES⁻) M-H= 557.83

30 **[2-Methyl-4-({[4-[(4-Methylphenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid**
MS(ES⁻) M-H= 557.8
CHN Analysis: Theory 1.5H₂O (C, 57.33%; H, 4.64%; N, 2.39%) Found (C, 57.34%; H, 4.24%; N, 2.37%)

35 **[4-({[4-[(3-Cyanophenoxy)methyl]-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-Methylphenoxy]acetic acid**
¹H (CDCl₃) 300MHz δ 8.05(d, 2H, J=8.23 Hz), 7.74(d, 2H, J=8.23 Hz), 7.38(m, 2H), 7.17(m, 4H), 6.67(d, 1H, J=8.23 Hz), 4.76(s, 2H), 4.72(s, 2H), 4.25(s, 2H), 2.23(s, 3H). MS(ES⁻) M-H= 569.2

[4-({[4-Cyanophenoxy)methyl]-2-(4-(trifluoromethyl)phenyl}-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]acetic acid

5 ^1H (CDCl₃) 300MHz δ 9.94(s, 1H), 8.03(d, 2H, J=8.23 Hz), 7.73(d, 2H, J=8.23 Hz), 7.60(d, 2H, J=9.03 Hz), 7.27(d, 1H, J=2.12 Hz), 7.10(dd, 1H, J=8.49, 2.12 Hz), 7.00(d, 2H, J=9.03 Hz), 6.61(d, 1H, J=8.49 Hz), 4.85(s, 2H), 4.69(s, 2H), 4.25(s, 2H), 2.21(s, 3H). MS(ES⁺) M-H= 569.2

(2-Methyl-4-{{[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl}-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxyacetic acid

10 ^1H (CDCl₃) 400MHz δ 7.95(d, 2H, J=9.06 Hz), 7.87(m, 2H), 7.43(m, 3H), 7.20(d, 1H, J=2.39 Hz), 7.05(dd, 1H, J=8.55, 2.39 Hz), 6.95(d, 2H, J=9.06 Hz), 6.52(d, 1H, J=8.55 Hz), 4.80(s, 2H), 4.61(s, 2H), 4.24(s, 2H), 2.63(s, 3H), 2.17(s, 3H). MS(ES⁺) M-H= 558.40

2-(2-Methyl-4-{{[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl}-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)propanoic acid

15 ^1H (CDCl₃) 400MHz δ 7.93(d, 2H, J=9.06 Hz), 7.85(m, 2H), 7.40(m, 3H), 7.19(d, 1H, J=2.22 Hz), 7.02(dd, 1H, J=8.37, 2.22 Hz), 6.94(d, 2H, J=9.06 Hz), 6.52(d, 1H, J=8.37 Hz), 4.81(d, 1H, J .79 Hz), 4.74(d, 1H, J .79 Hz), 4.68(q, 1H, J=6.78 Hz), 4.21(s, 2H), 2.62(m, 3H), 2.16(s, 3H), 1.61(d, 3H, J=6.78 Hz). MS(ES⁺) M-H= 571.50

20 2-(2-Methyl-4-{{[4-(3-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)propanoic acid

25 ^1H NMR (CDCl₃) 400MHz δ 7.99(d, 2H, J=8.20 Hz), 7.67(m, 3H), 7.47(m, 1H), 7.36(t, 1H, J=8.03 Hz), 7.10(dd, 1H, J=8.37, 2.39 Hz), 7.04(dd, 1H, J=8.37, 2.39 Hz), 6.99(m, 1H), 6.61(d, 1H, J=8.37 Hz), 4.75(q, 1H, J=6.84 Hz), 4.62(d, 1H, J .45 Hz), 4.43(d, 1H, J .45 Hz), 4.23(d, 1H, J .70 Hz), 4.16(d, 1H, J .70 Hz), 2.70(s, 3H), 2.12(s, 3H), 1.68(d, 3H, J=6.84 Hz). MS(ES⁺) M+H= 642.00

2-(2-Methyl-4-{{[4-(3-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl}-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)propanoic acid

30 ^1H NMR (CDCl₃) 400MHz δ 7.90(m, 2H), 7.67(t, 1H, J=7.52Hz), 7.46(m, 1H), 7.42(m, 3H), 7.35(t, 1H, J=7.52 Hz), 7.08(dd, 1H, J=8.37, 2.39 Hz), 7.04(d, 1H, J=8.37 Hz), 7.00(d, 1H, J=2.39 Hz), 6.61(d, 1H, J=8.37 Hz), 4.73(q, 1H, J=6.84 Hz), 4.58(d, 1H, J .45 Hz), 4.43(d, 1H, J .45 Hz), 4.20(d, 1H, J .70 Hz), 4.15(d, 1H, J .70 Hz), 2.69(s, 3H), 2.12(s, 3H), 1.66(d, 3H, J=6.84 Hz). MS(ES⁺) M+H= 573.80

35 [2-Methyl-4-{{[2-(4-(trifluoromethyl)phenyl)-4-(phenoxy)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid

^1H (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.23 Hz), 7.70(d, 2H, J=8.23 Hz), 7.33(m, 2H), 7.22(s, 1H), 7.12(d, 1H, J=9.03 Hz), 6.98(m, 3H), 6.58(d, 1H, J=8.49 Hz), 4.87(s, 2H), 4.63(s, 2H), 4.30(s, 2H), 2.22(s, 3H). TLC(5% MeOH/CH₂Cl₂) R_f = 0.17

(2-Methyl-4-[(4-[(3-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)acetic acid

5 ¹H NMR (CDCl₃) 400MHz δ 7.91(m, 2H), 7.95(d, 1H, J=7.69 Hz), 7.47(m, 1H), 7.42(m, 3H), 7.35(t, 1H, J=7.95 Hz), 7.13(dd, 1H, J=8.37, 2.39 Hz), 7.04(s, 2H), 6.60(d, 1H, J=8.37 Hz), 4.67(s, 2H), 4.57(s, 2H), 4.20(s, 2H), 2.69(s, 3H), 2.12(s, 3H),

MS(ES⁺) M+H= 560.30

2-[2-Methyl-4-[(4-[(4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoic acid

10 ¹H (CDCl₃) 400MHz δ 7.94(m, 4H), 7.66(d, 2H, J=8.20 Hz), 7.18(d, 1H, J=2.22 Hz), 7.03(dd, 1H, J=8.20, 2.22 Hz), 6.94(d, 2H, J=8.89 Hz), 6.53(d, 1H, J=8.20 Hz), 4.85(d, 1H, J .79 Hz), 4.80(d, 1H, J .79 Hz), 4.69(q, 1H, J=6.84 Hz), 4.26(d, 1H, J .70 Hz), 4.21(d, 1H, J .70 Hz), 2.63(m, 3H), 2.18(s, 3H), 1.62(d, 3H, J=6.84 Hz),

MS(ES⁻) M-H= 640.00

15

{2-Ethyl-4-[(4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)acetic acid

15 ¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.06 Hz), 7.67(d, 2H, J=8.06 Hz), 7.11(dd, 1H, J=8.61, 2.20 Hz), 7.02(d, 1H, J=2.20 Hz), 6.93(m, 2H), 6.82(m, 2H), 6.68(d, 1H, J=8.61 Hz), 4.62(s, 2H), 4.12(s, 2H), 3.44(s, 2H), 3.25(m, 4H), 3.02(br s, 4H), 2.58(q, 2H, J=7.51 Hz), 1.10(t, 3H, J=7.51 Hz),

MS(ES⁻) M-H= 644.5

{4-[(4-(4-Acetyl-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-ethylphenoxy)acetic acid

20 ¹H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.22(dd, 1H, J=8.55, 2.21 Hz), 7.03(s, 1H), 6.74(d, 1H, J=8.55 Hz), 4.74(s, 2H), 4.13(s, 2H), 3.76(br s, 4H), 3.36(s, 2H), 2.99(br s, 2H), 2.72(br s, 2H), 2.61(q, 2H, J=7.45 Hz), 2.09(s, 3H), 1.12(t, 3H, J=7.45 Hz),

MS(ES⁺) M+H= 594.1

30

{4-[(4-(4-Acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-ethylphenoxy)acetic acid

30 ¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.42 Hz), 7.84(d, 2H, J=8.97 Hz), 7.67(d, 2H, J=8.42 Hz), 7.14(dd, 1H, J=8.42, 2.20 Hz), 6.95(s, 1H), 6.80(d, 2H, J=8.97 Hz), 6.70(d, 1H, J=8.42 Hz), 4.66(s, 2H), 4.08(s, 2H), 3.54(br s, 4H), 3.38(s, 2H), 3.06(br s, 4H), 2.56(q, 2H, J=7.60 Hz), 2.49(s, 3H), 1.08(t, 3H, J=7.60 Hz),

{2-Ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)acetic acid

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¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.28 Hz), 7.68(d, 2H, J=8.28 Hz), 7.15(dd, 1H, J=8.45, 2.24 Hz), 6.94(d, 1H, J=2.24 Hz), 6.88(d, 2H, J=9.14 Hz), 6.79(d, 2H, J=9.14 Hz), 6.72(d, 1H,

J=8.45 Hz), 4.66(s, 2H), 4.08(s, 2H), 3.72(s, 3H), 3.32(m, 6H), 3.09(br s, 4H), 2.56(q, 2H, J=7.50 Hz), 1.08(t, 3H, J=7.50 Hz),
 MS(ES⁻) M-H= 656.2

5 **2-(4-[(2-(4-Fluorophenyl)-4-[(4-phenoxy carbonyl)-1-piperazinyl]methyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]propanoic acid**

¹H NMR (CDCl₃) 400MHz δ 7.91(m, 2H), 7.35(m, 3H), 7.19(m, 3H), 7.12(br s, 1H), 7.07(d, 2H, J=8.79 Hz), 6.67(br s, 1H), 4.58(br s, 1H), 4.27(s, 2H), 3.59(m, 4H), 3.41(s, 2H), 2.51(br s, 4H), 2.19(s, 3H), 1.54(d, 1H, J=6.59 Hz),

10 MS(ES⁻) M-H= 620.4

2-(4-[(2-(4-Fluorophenyl)-4-[(4-isopropoxycarbonyl)-1-piperazinyl]methyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]propanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.94(m, 2H), 7.19(m, 3H), 7.05(br s, 1H), 6.64(d, 1H, J=8.42 Hz), 4.69(br s, 1H), 4.47(br s, 1H), 4.21(s, 2H), 3.50(br s, 4H), 3.36(s, 2H), 2.64(br s, 4H), 2.18(s, 3H), 1.57(d, 3H, J=5.68 Hz), 1.22(d, 6H, J=6.23 Hz),
 MS(ES⁻) M-H= 586.2

20 **2-[4-[(4-[(4-Ethoxycarbonyl)-1-piperazinyl]methyl)-2-(4-fluorophenyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]propanoic acid**

¹H NMR (CD₃OD) 400MHz δ 7.93(m, 2H), 7.19(m, 3H), 7.09(br s, 1H), 6.67(br s, 1H), 4.70(br s, 1H), 4.21(s, 2H), 4.10(q, 2H, J=7.14 Hz), 3.49(m, 4H), 3.37(s, 2H), 2.60(br s, 4H), 2.18(s, 3H), 1.58(br s, 3H), 1.23(t, 3H, J=7.14 Hz),

MS(ES⁻) M-H= 572.2

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2-(4-[(2-(4-Fluorophenyl)-4-[(4-(3-methoxyphenyl)-1-piperazinyl]methyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]propanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.84(m, 2H), 7.13(m, 4H), 6.92(br s, 1H), 6.72(br s, 1H), 6.44(m, 3H), 4.38(br s, 1H), 4.00(s, 2H), 3.74(s, 3H), 3.40(m, 6H), 3.03(m, 4H), 2.17(s, 3H), 1.61(m, 3H),

30 MS(ES⁻) M-H= 606.2

2-[4-[(4-[(4-(4-Acetylphenyl)-1-piperazinyl]methyl)-2-(4-fluorophenyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]propanoic acid

¹H NMR (CD₃OD) 400MHz δ 7.94(m, 2H), 7.85(d, 2H, J=8.97 Hz), 7.18(m, 3H), 7.03(br s, 1H), 6.92(d, 2H, J=8.97 Hz), 6.67(br s, 1H), 4.61(br s, 1H), 4.19(s, 2H), 3.41(m, 6H), 2.73(br s, 4H), 2.48(s, 3H), 2.17(s, 3H), 1.61(br s, 3H),
 MS(ES⁻) M-H= 618.2

40 **2-(4-[(2-(4-Fluorophenyl)-4-[(4-(4-methoxyphenyl)-1-piperazinyl]methyl)-1,3-thiazol-5-yl]methyl]sulfanyl)-2-methylphenoxy]propanoic acid**

¹H NMR (CD₃OD) 400MHz δ 7.97(m, 2H), 7.18(m, 3H), 7.02(br s, 1H), 6.91(d, 2H, J=8.79 Hz), 6.81(d, 2H, J=8.79 Hz), 6.62(br s, 1H), 4.66(br s, 1H), 4.17(s, 2H), 3.72(s, 3H), 3.41(s, 2H), 3.15(br s, 4H), 2.92(br s, 4H), 2.18(s, 3H), 1.59(br s, 3H),
MS(ES⁺) M-H= 606.2

5

{4-[(4-{(4-Acetyl-1-piperazinyl)methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.21(dd, 1H, J=8.45, 2.41 Hz), 7.09(d, 1H, J=2.41 Hz), 6.74(d, 1H, J=8.45 Hz), 4.65(s, 2H), 4.26(s, 2H), 3.60(br s, 4H), 3.53(s, 2H), 2.75(t, 2H, J=4.74 Hz), 2.69(t, 2H, J=4.74 Hz), 2.52(t, 2H, J=7.41 Hz), 2.07(s, 3H), 1.50(m, 2H), 0.80(t, 3H, J=7.41 Hz),
MS(ES⁺) M-H= 606.3

{4-[(4-{(4-(3-Methoxyphenyl)-1-piperazinyl)methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.11(d, 2H, J=8.28 Hz), 7.77(d, 2H, J=8.28 Hz), 7.19(dd, 1H, J=8.28, 2.41 Hz), 7.13(t, 1H, J=8.45 Hz), 7.08(d, 1H, J=2.41 Hz), 6.73(t, 1H, J=8.45 Hz), 6.54(dd, 1H, J=8.28, 2.41 Hz), 6.49(t, 1H, J=2.33 Hz), 6.45(dd, 1H, J=8.28, 2.41 Hz), 4.58(s, 2H), 4.26(s, 2H), 3.73(s, 3H), 3.69(s, 2H), 3.31(m, 4H), 3.11(t, 4H, J=4.66 Hz), 2.52(t, 2H, J=7.33 Hz), 1.49(s, 2H), 0.80(t, 3H, J=7.33 Hz),
MS(ES⁺) M-H= 670.3

{4-[(4-{(4-(4-Acetylphenyl)-1-piperazinyl)methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}acetic acid

¹H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=8.45 Hz), 7.82(d, 2H, J=8.97 Hz), 7.68(d, 2H, J=8.45 Hz), 7.19(dd, 1H, J=8.45, 2.41 Hz), 6.78(m, 4H), 4.73(s, 2H), 4.03(s, 2H), 3.71(t, 4H, J=5.09 Hz), 3.28(m, 6H), 2.47(m, 5H), 1.46(m, 2H), 0.86(t, 3H, J=7.24 Hz),
MS(ES⁺) M-H= 682.1

{4-[(4-{(4-(4-Methoxyphenyl)-1-piperazinyl)methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-propylphenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.11(d, 2H, J=8.10 Hz), 7.77(d, 2H, J=8.10 Hz), 7.19(dd, 1H, J=8.62, 2.24 Hz), 7.08(d, 1H, J=2.24 Hz), 6.93(d, 2H, J=9.14 Hz), 6.82(d, 2H, J=9.14 Hz), 6.74(d, 1H, J=8.62 Hz), 4.59(s, 2H), 4.26(s, 2H), 3.73(s, 2H), 3.71(s, 3H), 3.18(m, 8H), 2.52(t, 2H, J=7.33 Hz), 1.48(m, 2H), 0.80(t, 3H, J=7.33 Hz),
MS(ES⁺) M+H= 672.2

2-{2-Ethyl-4-[(4-{(4-(3-methoxyphenyl)-1-piperazinyl)methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.95(d, 2H, J=8.28 Hz), 7.66(d, 2H, J=8.28 Hz), 7.12(m, 2H), 6.90(s, 1H), 6.76(d, 1H, J=8.28 Hz), 6.45(m, 3H), 4.80(q, 1H, J=6.90 Hz), 4.02(s, 2H), 3.73(s, 3H),

3.35(m, 4H), 3.21(d, 1H, J .66 Hz), 3.15(d, 1H, J .66 Hz), 2.95(br s, 4H), 2.55(s, 2H), 1.62(d, 3H, J=6.90 Hz), 1.07(t, 3H, J=7.50 Hz),

MS(ES⁻) M-H= 670.0

5 **2-[4-[(4-(4-Acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]2-ethylphenoxy}propanoic acid**

¹H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=8.28 Hz), 7.82(d, 2H, J=8.97 Hz), 7.65(d, 2H, J=8.28 Hz), 7.08(dd, 1H, J=8.62, 2.41 Hz), 6.87(d, 1H, J=2.41 Hz), 6.79(d, 2H, J=8.97 Hz), 6.72(d, 1H, J=8.62 Hz), 4.80(q, 1H, J=6.72 Hz), 4.04(d, 1H, J .66 Hz), 3.98(d, 1H, J .66 Hz), 3.49(br s, 4H),

10 3.28(d, 1H, J .83 Hz), 3.14(d, 1H, J .83 Hz), 3.00(br s, 4H), 2.54(m, 5H), 1.63(d, 3H, J=6.72 Hz), 1.06(t, 3H, J=7.50 Hz),

MS(ES⁻) M-H=682.2

15 **2-[2-Ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]phenoxy}propanoic acid**

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.45 Hz), 7.66(d, 2H, J=8.45 Hz), 7.10(dd, 1H, J=8.45, 2.24 Hz), 6.94(d, 1H, J=2.24 Hz), 6.89(d, 2H, J=9.14 Hz), 6.80(d, 2H, J=9.14 Hz), 6.75(d, 1H, J=8.45 Hz), 4.77(q, 1H, J=6.72 Hz), 4.04(s, 2H), 3.73(s, 3H), 3.25(m, 6H), 2.96(br s, 4H), 2.57(s, 2H), 1.61(d, 3H, J=6.72 Hz), 1.09(t, 3H, J=7.50 Hz),

20 MS(ES⁻) M-H= 670.3

2-[2-Ethyl-4-[(4-(4-morpholinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]phenoxy}propanoic acid

¹H NMR (CDCl₃) 400MHz δ 8.01(d, 2H, J=8.42 Hz), 7.70(d, 2H, J=8.42 Hz), 7.13(dd, 1H, J=8.42, 2.20 Hz), 6.86(s, 1H), 6.76(d, 1H, J=8.42 Hz), 4.84(q, 1H, J=6.65 Hz), 4.04(d, 1H, J .47 Hz), 3.98(d, 1H, J .47 Hz), 3.87(br s, 4H), 3.21(d, 1H, J .83 Hz), 3.08(d, 1H, J .83 Hz), 2.95(br s, 4H), 2.55(s, 2H), 1.64(d, 3H, J=6.65 Hz), 1.07(t, 3H, J=7.51 Hz),

MS(ES⁻) M-H=565.0

30 **2-[2-Ethyl-4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]phenoxy}propanoic acid**

¹H NMR (CD₃OD) 400MHz δ 8.12(d, 2H, J=8.24 Hz), 7.78(d, 2H, J=8.24 Hz), 7.17(dd, 1H, J=8.61, 2.20 Hz), 7.10(d, 1H, J=2.20 Hz), 6.98(m, 4H), 6.71(d, 1H, J=8.61 Hz), 4.71(q, 1H, J=6.90 Hz), 4.27(s, 2H), 3.66(s, 2H), 3.20(m, 8H), 2.59(q, 2H, J=7.51 Hz), 1.57(d, 3H, J=6.90 Hz), 1.09(t, 3H, J=7.51 Hz),

MS(ES⁻) M-H= 658.0

2-[4-[(4-Acetyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]2-ethylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.24 Hz), 7.77(d, 2H, J=8.24 Hz), 7.19(t, 1H, J=2.38 Hz), 7.09(d, 1H, J=2.38 Hz), 6.71(d, 1H, J=8.24 Hz), 4.80(q, 1H, J=6.78 Hz), 4.26(s, 2H),

3.65(m, 6H), 3.56(d, 1H, J=.92 Hz), 3.51(d, 1H, J=.92 Hz), 2.83(m, 4H), 2.58(q, 2H, J=7.60 Hz), 2.09(s, 3H), 1.60(d, 3H, J=6.78 Hz), 1.09(t, 3H, J=7.60 Hz),
 MS(ES⁻) M-H= 606.0

5 2-Ethyl-4-[(4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}acetic acid

¹H NMR (CDCl₃) 300MHz δ 8.05(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.19(dd, 1H, J=8.55, 2.21 Hz), 6.98(s, 1H), 6.76(d, 1H, J=8.55 Hz), 4.74(s, 2H), 4.12(s, 2H), 3.95(br s, 4H), 3.32(s, 2H), 3.06(br s, 4H), 2.61(q, 2H, J=7.54 Hz), 1.14(t, 3H, J=7.54 Hz),
 10 MS(ES⁻) M-H= 551.3

2-[2-Isopropyl-4-[(4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.11(d, 2H, J=8.24 Hz), 7.78(d, 2H, J=8.24 Hz), 7.25(dd, 1H, J=8.42, 2.38 Hz), 7.00(d, 1H, J=2.38 Hz), 6.74(d, 1H, J=8.42 Hz), 4.88(q, 1H, J=6.78 Hz), 4.25(s, 2H), 3.84(m, 5H), 3.66(d, 1H, J=.28 Hz), 3.22(m, 5H), 1.60(d, 3H, J=6.78 Hz), 1.05(m, 6H),
 .MS(ES⁻) M-H= 579.0

20 2-[4-[(4-(4-Fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]2-isopropylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.26(d, 1H, J=8.42 Hz), 7.06(s, 1H), 6.99(m, 4H), 6.75(d, 1H, J=8.42 Hz), 4.88(q, 1H, J=6.78 Hz), 4.29(s, 2H), 3.91(d, 1H, J=.10 Hz), 3.80(d, 1H, J=.10 Hz), 3.33(m, 9H), 1.60(d, 3H, J=6.78 Hz), 1.08(m, 6H),
 MS(ES⁻) M-H= 672.0

25 2-[4-[(4-(4-Acetyl-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]2-isopropylphenoxy}propanoic acid

MS(ES⁻) M-H= 620.0

30 2-[2-Isopropyl-4-[(4-[4-(3-methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.26(d, 1H, J=8.42 Hz), 7.16(t, 1H, J=8.42 Hz), 7.06(s, 1H), 6.74(d, 1H, J=8.42 Hz), 6.56(d, 1H, J=8.42 Hz), 6.50(br s, 2H), 4.90(q, 1H, J=6.78 Hz), 4.27(s, 2H), 3.89(d, 1H, J=.10 Hz), 3.79(d, 1H, J=.10 Hz), 3.74(s, 3H), 3.34(m, 9H), 1.60(d, 3H, J=6.78 Hz), 1.07(m, 6H),
 MS(ES⁻) M-H= 684.1

2-[4-[(4-(4-Acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]2-isopropylphenoxy}propanoic acid

40 ¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.24 Hz), 7.91(d, 2H, J=8.97 Hz), 7.78(d, 2H, J=8.24 Hz), 7.25(d, 1H, J=8.97 Hz), 7.04(m, 3H), 6.74(d, 1H, J=8.24 Hz), 4.89(q, 1H, J=6.78Hz),

4.28(s, 2H), 3.90(d, 1H, J .55 Hz), 3.79(d, 1H, J .55 Hz), 3.60(br s, 4H), 3.32(m, 5H), 2.50(s, 3H),
 1.61(d, 3H, J=6.78 Hz), 1.07(d, 6H, J=7.51 Hz),
 MS(ES') M-H= 696.2

5 2-[2-Isopropyl-4-[({4-([4-(4-methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.24 Hz), 7.79(d, 2H, J=8.24 Hz), 7.27(d, 1H, J=8.61 Hz), 7.05(s, 1H), 6.95(d, 2H, J=8.79 Hz), 6.84(d, 2H, J=8.79 Hz), 6.75(d, 1H, J=8.61 Hz), 4.88(m, 1H) buried under MeOH signal, 4.28(s, 2H), 3.90(d, 1H, J .28 Hz), 3.80(d, 1H, J .28 Hz),
 10 3.71(s, 3H), 3.56(br s, 4H), 3.28(m, 1H) buried under MeOH signal, 2.96(br s, 4H), 1.58(d, 3H, J=6.59 Hz), 1.07(m, 6H),
 MS(ES') M-H= 684.1

15 {2-Isopropyl-4-[({4-(4-morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.12(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.27(d, 1H, J=8.42 Hz), 7.04(s, 1H), 6.80(d, 1H, J=8.42 Hz), 4.76(s, 2H), 4.27(s, 2H), 3.87(m, 6H), 3.22(m, 5H), 1.07(d, 6H, J=6.78 Hz),
 MS(ES') M-H= 565.0

20 {4-[({4-([4-(4-Fluorophenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl}methyl)sulfanyl]2-isopropylphenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.28(d, 1H, J=8.42 Hz), 7.09(s, 1H), 6.98(m, 4H), 6.81(d, 1H, J=8.42 Hz), 4.74(s, 2H), 4.28(s, 2H), 3.89(s, 2H),
 25 3.61(br s, 4H), 3.29(m, 1H) buried under MeOH signal, 3.02(br s, 4H), 1.07(d, 6H, J=6.78 Hz),
 MS(ES') M-H= 658.0

30 {4-[({4-([4-Acetyl-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl}methyl)sulfanyl]2-isopropylphenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.28(d, 1H, J=8.42 Hz), 7.03(br s, 1H), 6.80(d, 1H, J=8.42 Hz), 4.76(s, 2H), 4.27(s, 2H), 3.80(m, 6H), 3.21(m, 5H), 2.11(s, 3H), 1.06(d, 6H, J=6.78 Hz),
 MS(ES') M-H= 606.2

35 2-[4-[({4-(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl}methyl)sulfanyl]2-propylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.12(d, 2H, J=8.28 Hz), 7.79(d, 2H, J=8.28 Hz), 7.23(dd, 1H, J=8.45, 2.24 Hz), 7.09(d, 1H, J=2.24 Hz), 6.95(d, 2H, J=9.14 Hz), 6.84(d, 2H, J=9.14 Hz), 6.71(d, 1H, J=8.45 Hz), 4.81(q, 1H, J=6.72 Hz), 4.29(s, 2H), 3.98(d, 1H, J .14 Hz), 3.90(d, 1H, J .14 Hz), 3.71(s, 3H), 3.50(br s, 4H), 3.21(m, 4H), 2.50(t, 2H, J=7.33 Hz), 1.58(d, 3H, J=6.72 Hz), 1.48(m, 2H), 0.79(t, 3H, J=7.33 Hz),

MS(ES⁺) M-H= 684.0

{4-[{4-(4-Morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]-2-propylphenoxy}acetic acid

5 ¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.79 Hz), 7.78(d, 2H, J=8.79 Hz), 7.20(dd, 1H, J=8.42, 2.20 Hz), 7.08(d, 1H, J=2.20 Hz), 6.75(d, 1H, J=8.42 Hz), 4.63(s, 2H), 4.26(s, 2H), 3.79(t, 4H, J=4.21 Hz), 3.64(s, 2H), 2.97(t, 4H, J=4.21 Hz), 2.53(t, 2H, J=7.42 Hz), 1.50(s, 2H), 0.82(t, 3H, J=7.42 Hz),
MS(ES⁺) M-H= 658.0

10 {4-[{4-[4-(4-Fluorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]-2-propylphenoxy}acetic acid

15 ¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.24 Hz), 7.67(d, 2H, J=8.24 Hz), 7.12(dd, 1H, J=8.42, 2.20 Hz), 7.01(d, 1H, J=2.20 Hz), 6.93(m, 2H), 6.83(m, 2H), 6.69(d, 1H, J=8.42 Hz), 4.62(s, 2H), 4.12(s, 2H), 3.45(s, 2H), 3.26(t, 4H, J=4.85 Hz), 3.04(t, 4H, J=4.85 Hz), 2.52(t, 2H, J=7.33 Hz), 1.51(s, 2H), 0.83(t, 3H, J=7.33 Hz),

2-{4-[{4-[(3,5-Dimethyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]-2-methylphenoxy}propanoic acid

20 ¹H NMR (CDCl₃) 400MHz δ 8.03(d, 2H, J=8.23 Hz), 7.71(d, 2H, J=8.23 Hz), 7.20(m, 2H), 6.66(d, 1H, J=8.55 Hz), 4.72(q, 1H, J=6.64 Hz), 4.26(d, 1H, J .87 Hz), 4.18(d, 1H, J .87 Hz), 3.34(m, 2H), 3.05(m, 2H), 2.71(m, 2H), 2.21(s, 3H), 1.97(m, 2H), 1.63(d, 3H, J=6.64 Hz), 1.35(m, 6H),
MS(ES⁺) M+H= 580.1

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 3.98

25 2-{4-[{4-[4-(4-Chlorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]-2-methylphenoxy}propanoic acid

30 ¹H NMR (CDCl₃) 400MHz δ 10.42(s, 1H), 7.92(d, 2H, J=8.20 Hz), 7.64(d, 2H, J=8.20 Hz), 7.15(d, 2H, J=9.06 Hz), 7.01(d, 1H, J=2.20 Hz), 6.96(d, 1H, J=8.37 Hz), 6.72(d, 2H, J=9.06 Hz), 6.59(d, 1H, J=8.37 Hz), 4.64(q, 1H, J=6.78 Hz), 4.09(s, 2H), 3.58(d, 1H, J .18 Hz), 3.49(d, 1H, J .18 Hz), 3.26(m, 4H), 3.05(m, 4H), 2.13(s, 3H), 1.56(d, 3H, J=6.78 Hz),
MS(ES⁺) M+H= 662.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 4.13

35 2-{4-[{4-[4-(tert-Butoxycarbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl}sulfanyl]-2-methylphenoxy}propanoic acid

30 ¹H NMR (CDCl₃) 400MHz δ 10.07(s, 1H), 7.93(d, 2H, J=8.23 Hz), 7.63(d, 2H, J=8.23 Hz), 7.04(s, 1H), 6.98(d, 1H, J=8.37 Hz), 6.58(d, 1H, J=8.37 Hz), 4.65(q, 1H, J=6.78 Hz), 4.12(d, 1H, J .70 Hz), 4.05(d, 1H, J .70 Hz), 3.47(m, 6H), 2.73(m, 4H), 2.14(s, 3H), 1.57(d, 3H, J=6.78 Hz), 1.38(s, 9H),
40 MS(ES⁺) M+H= 652.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 4.16

2-[2-Methyl-4-[(4-(1-piperazinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid

5 ¹H NMR (CDCl₃) 400MHz δ 9.26(br s, 1H), 7.97(br s, 2H), 7.63(br s, 2H), 7.10(br s, 2H), 6.67(br s, 1H), 4.56(br s, 1H), 4.11(br s, 2H), 3.39(br s, 2H), 2.98(br s, 4H), 2.41(br s, 4H), 2.07(br s, 3H), 1.44(br s, 3H),

MS(ES⁻) M-H= 552

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 3.80

10

{2-Isopropyl-4-[(4-[4-(3-methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetic acid

15 ¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.28(d, 1H, J=8.24 Hz), 7.15(m, 1H), 7.09(s, 1H), 6.80(d, 1H, J=8.24 Hz), 6.52(m, 3H), 4.74(s, 2H), 4.28(s, 2H), 3.88(s, 2H), 3.73(m, 3H), 3.48(br s, 4H), 3.29(m, 1H) buried under MeOH signal, 3.05(s, 4H), 1.06(d, 6H, J=6.59 Hz),

MS(ES⁻) M-H= 670.0

20

{4-[(4-[4-(4-Acetylphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-isopropylphenoxy}acetic acid

15 ¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=7.87 Hz), 7.91(d, 2H, J=8.79 Hz), 7.78(d, 2H, J=7.87 Hz), 7.27(d, 1H, J=8.24 Hz), 7.09(br s, 1H), 7.02(d, 2H, J=8.24 Hz), 6.80(d, 1H, J=8.79 Hz), 4.74(s, 2H), 4.29(s, 2H), 3.89(s, 2H), 3.62(br s, 4H), 3.30(m, 5H), 2.51(s, 3H), 1.07(d, 6H, J=6.78 Hz),

MS(ES⁻) M-H= 682.0

25

{2-Isopropyl-4-[(4-[4-(4-methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}acetic acid

30 ¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.29(d, 1H, J=8.45 Hz), 7.09(s, 1H), 6.98(d, 2H, J=8.45 Hz), 6.83(m, 3H), 4.73(s, 2H), 4.30(s, 2H), 3.90(s, 3H), 3.35(m, 11H), 1.07(d, 6H, J=6.59 Hz),

MS(ES⁻) M-H= 670.0

2-[4-[(4-(4-Morpholinylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-propylphenoxy}propanoic acid

35 ¹H NMR (CD₃OD) 400MHz δ 8.18(d, 2H, J=8.00 Hz), 7.84(d, 2H, J=8.00 Hz), 7.30(dd, 1H, J=8.55, 2.48 Hz), 7.11(d, 1H, J=2.48 Hz), 6.78(d, 1H, J=8.55 Hz), 4.91(s, 1H) buried under MeOH signal, 4.33(s, 2H), 3.94(m, 6H), 3.24(br s, 4H), 2.56(t, 2H, J=7.45 Hz), 1.59(m, 5H), 0.86(t, 3H, J=7.45 Hz),

MS(ES⁻) M-H= 579.0

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2-[4-[{4-[{4-(4-Fluorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]-2-propylphenoxy]propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.18(d, 2H, J=8.28 Hz), 7.85(d, 2H, J=8.28 Hz), 7.30(dd, 1H, J=8.55, 2.21 Hz), 7.16(d, 1H, J=2.21 Hz), 7.06(m, 4H), 6.78(d, 1H, J=8.55 Hz), 4.89(br s, 1H) hidden under MeOH signal, 4.35(s, 2H), 4.06(d, 1H, J .35 Hz), 3.98(d, 1H, J .35 Hz), 3.68(br s, 4H), 3.08(br s, 4H), 2.56(t, 2H, J=7.45 Hz), 1.57(m, 5H), 0.86(t, 3H, J=7.45 Hz),
MS(ES⁻) M-H= 672.0

2-[4-[{4-(4-Acetyl-1-piperazinyl)methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-propylphenoxy]propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.17(d, 2H, J=8.28 Hz), 7.84(d, 2H, J=8.28 Hz), 7.29(dd, 1H, J=8.55, 2.21 Hz), 7.10(d, 1H, J=2.21 Hz), 6.77(d, 1H, J=8.55 Hz), 4.93(q, 1H, J=6.78 Hz), 4.32(s, 2H), 3.86(m, 6H), 3.27(m, 4H), 2.56(m, 2H), 2.18(s, 3H), 1.66(d, 3H, J=6.78 Hz), 1.54(m, 2H), 0.85(t, 3H, J=7.31 Hz),
MS(ES⁻) M-H= 620.0

2-[4-[{4-[4-(3-Methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-propylphenoxy]propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.18(d, 2H, J=8.55 Hz), 7.85(d, 2H, J=8.55 Hz), 7.30(dd, 1H, J=8.55, 2.21 Hz), 7.22(t, 1H, J=8.55 Hz), 7.16(d, 1H, J=2.21 Hz), 6.77(d, 1H, J=8.55 Hz), 6.58(m, 3H), 4.80(m, 1H), 4.34(s, 2H), 4.06(d, 1H, J .07 Hz), 3.97(d, 1H, J .07 Hz), 3.79(s, 3H), 3.60(br s, 4H), 3.08(br s, 4H), 2.56(t, 2H, J=7.17 Hz), 1.58(m, 5H), 0.85(t, 3H, J=7.17 Hz),
MS(ES⁻) M-H= 684.1

2-[4-[{4-[4-(4-Acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-propylphenoxy]propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.12(d, 2H, J=8.28 Hz), 7.91(d, 2H, J=9.14 Hz), 7.78(d, 2H, J=8.28 Hz), 7.22(dd, 1H, J=8.28, 2.24 Hz), 7.10(d, 1H, J=2.24 Hz), 7.03(d, 2H, J=9.14 Hz), 6.71(d, 1H, J=8.28 Hz), 4.81(q, 1H, J=6.72 Hz), 4.29(s, 2H), 3.99(d, 1H, J=.14 Hz), 3.91(d, 1H, J .14 Hz), 3.60(br s, 4H), 3.33(m, 4H), 2.48(m, 5H), 1.59(d, 3H, J=6.72 Hz), 1.48(m, 2H), 0.78(t, 3H, J=7.41 Hz),
MS(ES⁻) M-H= 696.1

2-[2-Methyl-4-[{4-[4-(2-pyrimidinyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-propylphenoxy]propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.35(d, 2H, J=4.69 Hz), 8.13(d, 2H, J=8.28 Hz), 7.80(d, 2H, J=8.28 Hz), 7.21(s, 1H), 7.13(d, 1H, J=8.28 Hz), 6.71(d, 1H, J=8.28 Hz), 6.63(t, 1H, J=4.69 Hz), 4.59(m, 1H), 4.31(s, 2H), 3.86(t, 4H, J=4.69 Hz), 3.50(s, 2H), 2.69(t, 4H, J=4.69 Hz), 2.22(s, 3H), 1.59(d, 3H, J=6.78 Hz),
MS(ES⁻) M-H= 628.5

2-[4-[{4-[4-(2,4-Dimethoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy]propanoic acid

5 ^1H NMR (CD₃OD) 300MHz δ 8.17(d, 2H, J=8.00 Hz), 7.80(d, 2H, J=8.00 Hz), 7.20(br s, 1H),
 7.04(br s, 1H), 6.92(d, 1H, J=8.55 Hz), 6.67(br s, 1H), 6.56(m, 1H), 6.48(m, 1H), 4.59(br s, 1H),
 4.27(s, 2H), 3.84(s, 3H), 3.78(s, 3H), 3.55(s, 2H), 3.07(m 8H), 2.21(s, 3H), 1.56(br s, 3H),
 MS(ES⁺) M-H= 685.6

2-[2-Methyl-4-[{4-[4-[2-oxo-2-(1-pyrrolidinyl)ethyl]-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy]propanoic acid

10 MS(ES⁺) M-H= 660.7
 CHN Analysis 0.3 H₂O (Theoretical %C=53.62, %H=6.05, %N=7.82; Found %C=53.33,
 %H=6.01, %N=7.95)

2-[2-Methyl-4-[{2-[4-(trifluoromethyl)phenyl]-4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]methyl}-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy]propanoic acid

15 ^1H NMR (CD₃OD) 300MHz δ 8.09(d, 2H, J=8.28 Hz), 7.77(d, 2H, J=8.28 Hz), 7.40(s, 1H),
 7.19(m, 4H), 7.07(d, 1H, J=7.73 Hz), 6.71(d, 1H, J=8.28 Hz), 4.47(m, 1H), 4.33(s, 2H), 3.53(s, 2H),
 3.23(m, 4H), 2.64(m, 4H), 2.22(s, 3H), 1.57(d, 3H, J=6.78 Hz),
 MS(ES⁺) M-H= 694.5

20 **2-[4-[{4-[4-(2-Methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy]propanoic acid**
 1 ^1H NMR (CD₃OD) 300MHz δ 8.09(d, 2H, J=8.28 Hz), 7.77(d, 2H, J=8.28 Hz), 7.25(s, 1H),
 7.17(s, 1H), 6.96(m, 4H), 6.70(s, 1H), 4.51(m, 1H), 4.34(s, 2H), 3.86(s, 3H), 3.57(s, 2H), 3.07(br s,
 25 4H), 2.76(br s, 4H), 2.23(br s, 3H), 1.54(br s, 3H),
 MS(ES⁺) M-H= 656.5

2-[4-[{4-[4-Acetyl-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy]propanoic acid

30 ^1H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=8.20 Hz), 7.63(d, 2H, J=8.20 Hz), 7.02(m, 2H),
 6.57(d, 1H, J=8.20 Hz), 4.65(q, 1H, J=6.78 Hz), 4.16(d, 1H, J=.87 Hz), 4.09(d, 1H, J=.87 Hz), 3.55(m,
 6H), 2.74(m, 4H), 2.11(s, 3H), 1.98(s, 3H), 1.55(d, 3H, J=6.78 Hz),
 MS(ES⁺) M+H= 594.0

HPLC(C-18 3 μ m) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 3.79

35 **2-[2-Methyl-4-[{4-[4-(4-pyridinyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy]propanoic acid**

1 ^1H NMR (CD₃OD) 400MHz δ 8.01(d, 2H, J=8.20 Hz), 7.95(d, 2H, J=8.20 Hz), 7.64(d, 2H,
 J=8.20 Hz), 7.16(d, 1H, J=2.22 Hz), 7.09(dd, 1H, J=8.37, 2.22 Hz), 6.97(d, 2H, J=8.20 Hz), 6.63(d,
 40 1H, J=8.37 Hz), 4.48(q, 1H, J=6.78 Hz), 4.19(s, 2H), 3.57(t, 4H, J=5.10Hz), 3.48(s, 2H), 2.46(t, 4H,
 J=5.10 Hz), 2.14(s, 3H), 1.54(d, 3H, J=6.78 Hz),

MS(ES⁺) M+H= 629.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 4.22

5 2-[4-[(4-(4-Methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]-2-methylphenoxy}propanoic acid

10 ¹H NMR (CDCl₃) 400MHz δ 10.57(s, 1H), 7.91(d, 2H, J=8.20 Hz), 7.63(d, 2H, J=8.20 Hz), 7.11(t, 1H, J=8.20 Hz), 6.98(m, 2H), 6.60(d, 1H, J=8.20 Hz), 6.41(dd, 2H, J=8.20, 2.22 Hz), 6.35(t, 1H, J=2.22 Hz), 4.65(q, 1H, J=6.84 Hz), 4.10(s, 2H), 3.72(s, 3H), 3.59(d, 1H, J=1.18 Hz), 3.49(d, 1H, J=1.18 Hz), 3.35(m, 4H), 3.10(m, 4H), 2.12(s, 3H), 1.55(d, 3H, J=6.84 Hz),

10 MS(ES⁺) M+H= 658.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 4.09

20 2-[2-Methyl-4-[(4-(4-morpholinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]phenoxy}propanoic acid

15 ¹H NMR (CDCl₃) 400MHz δ 11.61(s, 1H), 8.00(d, 2H, J=8.23 Hz), 7.69(d, 2H, J=8.23 Hz), 7.10(dd, 1H, J=8.37, 2.20 Hz), 6.83(d, 1H, J=2.20 Hz), 6.71(d, 1H, J=8.37 Hz), 4.84(q, 1H, J=6.72 Hz), 4.12(m, 4H), 3.84(m, 2H), 3.43(m, 3H), 3.19(m, 2H), 2.88(m, 1H), 2.10(s, 3H), 1.61(d, 3H, J=6.72 Hz),

20 MS(ES⁺) M+H= 553.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 3.89

25 2-[4-[(4-(Ethoxycarbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]-2-methylphenoxy}propanoic acid

30 ¹H NMR (CDCl₃) 400MHz δ 10.39(s, 1H), 7.93(d, 2H, J=8.23 Hz), 7.64(d, 2H, J=8.23 Hz), 7.05(d, 1H, J=2.39 Hz), 6.97(d, 1H, J=8.37 Hz), 6.57(d, 1H, J=8.37 Hz), 4.65(q, 1H, J=6.78 Hz), 4.09(q, 4H, J=7.06 Hz), 3.58(m, 4H), 3.39(m, 2H), 2.74(m, 4H), 2.14(s, 3H), 1.57(d, 3H, J=6.78 Hz), 1.21(t, 3H, J=7.06 Hz),

30 MS(ES⁺) M+H= 624.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 3.93

35 2-[4-[(4-(4-Acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methylsulfanyl]-2-methylphenoxy}propanoic acid

35 ¹H NMR (CDCl₃) 400MHz δ 9.84(s, 1H), 7.91(d, 2H, J=8.20 Hz), 7.81(d, 2H, J=8.89 Hz), 7.63(d, 2H, J=8.20 Hz), 7.00(d, 1H, J=2.20 Hz), 6.93(dd, 1H, J=8.37, 2.20 Hz), 6.76(d, 2H, J=8.89 Hz), 6.58(d, 1H, J=8.37 Hz), 4.66(q, 1H, J=6.78 Hz), 4.08(s, 2H), 3.45(m, 6H), 2.96(m, 4H), 2.47(s, 3H), 2.13(s, 3H), 1.59(d, 3H, J=6.78 Hz),

35 MS(ES⁺) M+H= 670.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_f= 4.03

2-[4-[(4-[(4-Fluorophenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

5 ¹H NMR (CDCl₃) 400MHz δ 7.92(d, 2H, J=8.23 Hz), 7.62(d, 2H, J=8.23 Hz), 7.05(s, 1H),
6.89(m, 2H), 6.75(m, 2H), 6.55(d, 1H, J=8.23 Hz), 4.59(m, 1H), 4.17(m, 2H), 3.53(m, 2H), 3.21(m,
4H), 2.97(m, 4H), 2.12(s, 3H), 1.51(d, 3H, J=6.78 Hz),
MS(ES⁺) M+H= 646.0

HPLC(C-18 3μm) 1%MeOH/ 0-99% Acetonitrile/Water (0.1%TFA) 5min run R_t= 4.11

10 2-[4-[(4-[(4-Fluorophenyl)sulfonyl]-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

15 ¹H NMR (CD₃OD) 400MHz δ 8.03(d, 2H, J=8.20 Hz), 7.83(t, 2H, J=7.69 Hz), 7.73(d, 2H,
J=8.20 Hz), 7.33(t, 2H, J=7.69 Hz), 7.17(s, 1H), 7.08(d, 1H, J=8.20 Hz), 6.64(d, 1H, J=8.20 Hz),
4.67(br s, 1H), 4.22(s, 2H), 3.37(s, 2H), 2.99(br s, 4H), 2.50(br s, 4H), 2.16(s, 3H), 1.57(d, 3H, J=6.84
Hz),
MS(ES⁺) M-H= 708.0

2-[2-Methyl-4-[(4-[(4-(3-methylbutanoyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy}propanoic acid

20 ¹H NMR (CD₃OD) 400MHz δ 8.12(d, 2H, J=8.28 Hz), 7.80(d, 2H, J=8.28 Hz), 7.23(d, 1H,
J=2.21 Hz), 7.17(dd, 1H, J=8.28, 2.21 Hz), 6.72(d, 1H, J=8.28 Hz), 4.72(q, 1H, J=6.44 Hz), 4.32(s,
2H), 3.63(br s, 4H), 3.44(s, 2H), 2.59(br s, 4H), 2.31(d, 2H, J=6.90 Hz), 2.21(s, 3H), 2.06(m, 1H),
1.62(d, 3H, J=6.44 Hz), 0.98(d, 6H, J=6.90 Hz),
MS(ES⁺) M-H= 634.0

25 2-[4-[(4-[(4-Cyclohexylcarbonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

30 ¹H NMR (CD₃OD) 400MHz δ 8.06(d, 2H, J=8.10 Hz), 7.74(d, 2H, J=8.10 Hz), 7.16(d, 1H,
J=2.24 Hz), 7.09(dd, 1H, J=8.45, 2.24 Hz), 6.64(d, 1H, J=8.45 Hz), 4.68(q, 1H, J=6.78 Hz), 4.25(s,
2H), 3.60(br s, 4H), 3.42(s, 2H), 2.62(br s, 4H), 2.16(s, 3H), 1.72(m, 5H), 1.56(d, 3H, J=6.72 Hz),
1.31(m, 6H),
MS(ES⁺) M-H= 661.0

2-[2-Methyl-4-[(4-[(4-(2-pyrazinyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]phenoxy}propanoic acid

35 ¹H NMR (CD₃OD) 300MHz δ
8.17(m, 4H), 7.81(m, 3H), 7.26(br s, 1H), 7.13(br s, 1H), 6.75(br s, 1H), 4.68(br s, 1H), 4.32(s,
2H), 3.65(br s, 4H), 3.48(s, 2H), 2.64(br s, 4H), 2.20(s, 3H), 1.60(br s, 3H),
MS(ES⁺) M-H= 628.3

40 2-[4-[(4-[(4-[4-(dimethylamino)benzoyl]-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ ,
 8.12(d, 2H, J=8.28 Hz), 7.80(d, 2H, J=8.28 Hz), 7.35(d, 2H, J=9.11 Hz), 7.21(d, 1H, J=2.21 Hz), 7.14(d, 1H, J=8.55 Hz), 6.78(d, 2H, J=9.11 Hz), 6.70(d, 1H, J=8.55 Hz), 4.68(q, 1H, J=6.62 Hz), 4.31(s, 2H), 3.70(br s, 4H), 3.45(s, 2H), 3.02(s, 6H), 2.63(br s, 4H), 2.19(s, 3H), 1.59(d, 3H, J=6.62 Hz),
 5 MS(ES⁻) M-H= 697.0

yl)methyl)sulfanyl]-2-methylphenoxy)propanoic acid

10 ¹H NMR (CD₃OD) 400MHz δ 8.06(d, 2H, J=8.28 Hz), 7.73(d, 2H, J=8.22 Hz), 7.65(m, 1H), 7.16(d, 1H, J=2.20 Hz), 7.07(d, 1H, J=8.55 Hz), 7.01(d, 1H, J=3.62 Hz), 6.63(d, 1H, J=8.45 Hz), 6.55(m, 1H), 4.66(q, 1H, J=6.55 Hz), 4.25(s, 2H), 3.77(br s, 4H), 3.39(s, 2H), 2.59(br s, 4H), 2.14(s, 3H), 1.54(d, 3H, J=6.55 Hz),
MS(ES⁻) M-H= 644.1

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2-[4-({[4-([4-(Cyclopentylcarbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.28 Hz), 7.80(d, 2H, J=8.28 Hz), 7.23(d, 1H, J=2.39 Hz), 7.15(d, 1H, J=8.28 Hz), 6.71(br s, 1H), 4.73(q, 1H, J=6.78 Hz), 4.31(s, 2H), 3.67(br s, 4H), 3.45(s, 2H), 3.06(m, 1H), 2.62(br s, 4H), 2.22(s, 3H), 1.75(m, 14H),
 MS(ES⁻) M-H= 646.2

2-(4-((4-((4-(Cyclobutylcarbonyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl)-2-methylphenoxy)propanoic acid

25 ^1H NMR (CD₃OD) 400MHz δ 8.09(d, 2H, J=8.20 Hz), 7.77(d, 2H, J=8.20 Hz), 7.18(d, 1H, J=2.22 Hz), 7.13(dd, 1H, J=8.55, 2.22 Hz), 6.68(d, 1H, J=8.55 Hz), 4.71(q, 1H, J=6.75 Hz), 4.28(s, 2H), 3.60(br s, 2H), 3.46(br s, 2H), 3.41(s, 2H), 2.57(t, 4H, J=4.44 Hz), 2.22(m, 6H), 2.00(m, 2H), 1.83(m, 2H), 1.60(d, 3H, J=6.75 Hz),
 MS(ES') M-H= 633.1

30 2-{4-[{4-[4-(Cyclopropylcarbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid

35 ¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.23 Hz), 7.76(d, 2H, J=8.23 Hz), 7.21(d, 1H, J=2.20 Hz), 7.11(d, 1H, J=8.20 Hz), 6.67(s, 1H), 4.68(q, 1H, J=6.84 Hz), 4.28(s, 2H), 3.68(br s, 4H), 3.42(s, 2H), 2.59(br s, 4H), 2.19(s, 3H), 1.95(m, 1H), 1.57(d, 3H, J=6.84 Hz), 0.84(m, 4H),
MS(ES⁺) M-H⁺ 619.1

2-{[2-Methyl-4-[(4-[(4-(2-thienyl)carbonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.10(d, 2H, J=8.20 Hz), 7.76(d, 2H, J=8.20 Hz), 7.63(d, 1H, J=5.13 Hz), 7.37(d, 1H, J=5.13 Hz), 7.22(br s, 1H), 7.10(br s, 1H), 7.02(br s, 1H), 6.64(br s, 1H), 4.67(br s, 1H), 4.27(s, 2H), 3.74(br s, 4H), 3.40(s, 2H), 2.53(br s, 4H), 2.16(br s, 3H), 1.57(br s, 3H),
MS(ES⁺) M-H⁺ 660.1

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2-[4-((4-(2,4-Difluorophenyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.10(d, 2H, J=8.28 Hz), 7.73(d, 2H, J=8.28 Hz), 7.20(br s, 1H),
6.92(m, 4H), 6.60(d, 1H, J=8.55 Hz), 4.59(br s, 1H), 4.23(s, 2H), 3.44(s, 2H), 3.06(br s, 4H), 2.80(br s,
4H), 2.17(s, 3H), 1.53(d, 3H, J=6.35 Hz),
MS(ES⁺) M-H⁺ 661.2

2-[2-Methyl-4-({[2-[4-(trifluoromethyl)phenyl]phenyl}-4-{[4-[4-(trifluoromethyl)phenyl]-1-piperazinyl]methyl}-1,3-thiazol-5-yl)methylsulfonyl]phenoxy]propanoic acid

15 ^1H NMR (CD₃OD) 300MHz δ 8.11(d, 2H, J=8.28 Hz), 7.78(d, 2H, J=8.28 Hz), 7.49(d, 2H, J=8.55 Hz), 7.24(d, 1H, J=2.39 Hz), 7.15(d, 1H, J=8.55 Hz), 7.04(d, 2H, J=8.55 Hz), 6.71(d, 1H, J=8.55 Hz), 4.55(br s, 1H), 4.32(s, 2H), 3.51(s, 2H), 3.31(m, 4H), 2.68(t, 4H, J=4.97 Hz), 2.22(s, 3H), 1.59(d, 3H, J=6.07 Hz),
 MS(ES⁻) M-H⁺ 694.5

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2-{4-[{4-[4-(Isobutoxycarbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoic acid

25 ^1H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.28 Hz), 7.80(d, 2H, J=8.28 Hz), 7.22(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 6.71(d, 1H, J=8.28 Hz), 4.75(q, 1H, J=6.90 Hz), 4.31(s, 2H), 3.89(d, 2H, J=6.90 Hz), 3.57(br s, 4H), 2.68(t, 4H, J=4.69 Hz), 2.22(s, 3H), 1.96(m, 1H), 1.62(d, 3H, J=6.90 Hz), 0.96(d, 6H, J=6.90 Hz),
MS(ES⁻) M-H = 650

30 2-[4-[(4-[(BenzylOxy)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.06(d, 2H, J=8.03 Hz), 7.73(d, 2H, J=8.03 Hz), 7.30(m, 5H), 7.15(br s, 1H), 7.08(dd, 1H, J=8.20, 2.22 Hz), 6.64(d, 1H, J=8.20 Hz), 5.08(s, 2H), 4.65(q, 1H, J=6.72 Hz), 4.23(s, 2H), 3.51(br s, 4H), 3.37(s, 2H), 2.57(br s, 4H), 2.15(s, 3H), 1.55(d, 3H, J=6.72 Hz), MS(ES⁺) M-H= 684.0

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2-[4-({4-[4-(Methoxycarbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy)propanoic acid

40 ¹H NMR (CD₃OD) 400MHz δ 8.06(d, 2H, J=8.37 Hz), 7.74(d, 2H, J=8.37 Hz), 7.16(d, 1H, J=2.21 Hz), 7.10(dd, 1H, J=8.55, 2.39 Hz), 6.66(d, 1H, J=8.55 Hz), 4.59(br s, 1H), 4.25(s, 2H), 3.65(s, 3H), 3.45(t, 4H, J=4.79 Hz), 3.38(s, 2H), 2.49(br s, 4H), 2.17(s, 3H), 1.55(d, 3H, J=6.32 Hz),
MS(ES⁺) M-H⁺ = 608.0

2-{2-Methyl-4-[(4-{[4-(phenoxy carbonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid

5 ¹H NMR (CD₃OD) 400MHz δ 8.08(d, 2H, J=8.20 Hz), 7.75(d, 2H, J=8.20 Hz), 7.34(m, 2H),
 7.19(m, 2H), 7.13(dd, 1H, J=8.20, 2.22 Hz), 7.06(m, 2H), 6.66(d, 1H, J=8.20 Hz), 4.69(q, 1H, J=6.78
 Hz), 4.27(s, 2H), 3.69(br s, 2H), 3.54(br s, 2H), 3.43(s, 2H), 2.62(br s, 4H), 2.17(s, 3H), 1.54(d, 3H,
 J=6.78 Hz),
 MS(ES⁻) M-H= 670.0

10 **2-{2-Methyl-4-[(4-{[4-(phenylsulfonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid**

15 ¹H NMR (CD₃OD) 400MHz δ 8.01(d, 2H, J=8.20 Hz), 7.72(m, 4H), 7.63(d, 1H, J=8.20 Hz),
 7.56(M, 2H), 7.13(d, 1H, J=2.22Hz), 7.05(dd, 1H, J=8.20, 2.22 Hz), 6.62(d, 1H, J=8.20 Hz), 4.70(q,
 1H, J=6.61 Hz), 4.19(s, 2H), 3.34(s, 2H), 2.97(br s, 4H), 2.51(br s, 4H), 2.13(s, 3H), 1.57(d, 3H,
 J=6.61 Hz),
 MS(ES⁻) M-H= 690.0

2-{2-Methyl-4-[(2-[4-(trifluoromethyl)phenyl]-4-[(4-(trifluoromethyl)phenyl)sulfonyl]-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid

20 ¹H NMR (CD₃OD) 400MHz δ 8.01(d, 2H, J=8.20 Hz), 7.91(m, 4H), 7.71(d, 2H, J=8.20 Hz),
 7.15(d, 1H, J=2.22 Hz), 7.08(dd, 1H, J=8.20, 2.22 Hz), 6.62(d, 1H, J=8.20 Hz), 4.71(q, 1H, J=6.58Hz),
 4.20(s, 2H), 3.33(s, 2H), 3.01(br s, 4H), 2.49(br s, 4H), 2.14(s, 3H), 1.57(d, 3H, J=6.58 Hz),
 MS(ES⁻) M-H= 758.0

25 **2-{4-[(4-{[4-(4-Methoxyphenyl)sulfonyl]-1-piperazinyl}methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoic acid**

30 ¹H NMR (CD₃OD) 400MHz δ 8.02(d, 2H, J=8.37 Hz), 7.72(d, 2H, J=8.37 Hz), 7.66(d, 2H,
 J=8.72 Hz), 7.14(d, 1H, J=2.21 Hz), 7.07(m, 3H), 6.63(d, 1H, J=8.37 Hz), 4.71(q, 1H, J=6.72 Hz),
 4.20(s, 2H), 3.84(s, 3H), 3.35(s, 2H), 2.97(br s, 4H), 2.53(t, 4H, J=4.61Hz), 2.14(s, 3H), 1.58(d, 3H,
 J=6.72 Hz),
 MS(ES⁻) M-H= 720.0

2-{2-Methyl-4-[(4-{[4-(propylsulfonyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid

35 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.20 Hz), 7.75(d, 2H, J=8.20 Hz), 7.19(s, 1H),
 7.13(d, 1H, J=8.20 Hz), 6.66(d, 1H, J=8.20 Hz), 4.70(q, 1H, J=6.67 Hz), 4.26(s, 2H), 3.40(s, 2H),
 3.22(br s, 4H), 2.95(t, 2H, J=7.43 Hz), 2.54(br s, 4H), 2.17(s, 3H), 1.76(m, 2H), 1.57(d, 3H, J=6.67
 Hz), 1.02(t, 3H, J=7.43 Hz),
 MS(ES⁻) M-H= 656.0

2-[4-[(4-[(4-(Ethylsulfonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

5 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.03 Hz), 7.74(d, 2H, J=8.03 Hz), 7.19(s, 1H),
 7.11(d, 1H, J=8.03 Hz), 6.65(d, 1H, J=8.03 Hz), 4.64(q, 1H, J=6.49 Hz), 4.26(s, 2H), 3.39(s, 2H),
 3.23(br s, 4H), 2.99(q, 2H, J=7.41 Hz), 2.51(br s, 4H), 2.16(s, 3H), 1.55(d, 3H, J=6.49 Hz), 1.27(t, 3H,
 J=7.41 Hz),
 MS(ES⁻) M-H= 642.0

10 2-[2-Methyl-4-[(4-[(4-(methylsulfonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

15 ¹H NMR (CD₃OD) 400MHz δ 8.06(d, 2H, J=8.03 Hz), 7.74(d, 2H, J=8.03 Hz), 7.19(s, 1H),
 7.13(dd, 1H, J=8.03, 2.22 Hz), 6.66(d, 1H, J=8.03 Hz), 4.65(q, 1H, J=6.84 Hz), 4.27(s, 2H), 3.40(s,
 2H), 3.17(t, 4H, J=4.19 Hz), 2.80(s, 3H), 2.53(t, 4H, J=4.19 Hz), 2.17(s, 3H), 1.56(d, 3H, J=6.84 Hz),
 MS(ES⁻) M-H= 628.0

20 2-[4-[(4-[(4-(4-Fluorobenzoyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid
 25 ¹H NMR (CD₃OD) 300MHz δ 8.09(d, 2H, J=8.28 Hz), 7.76(d, 2H, J=8.28 Hz), 7.52(M, 2H),
 7.22(M, 3H), 7.13(dd, 1H, J=8.28, 2.20 Hz), 6.68(d, 1H, J=8.28 Hz), 4.67(q, 1H, J=6.81 Hz), 4.32(s,
 2H), 3.79(br s, 4H), 3.66(s, 2H), 2.90(br s, 4H), 2.17(s, 3H), 1.59(d, 3H, J=6.81 Hz),
 MS(ES⁻) M-H= 671.9

30 2-[4-[(4-[(4-(Acetylamino)phenyl]sulfonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid

35 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.28 Hz), 7.83(d, 2H, J=8.83 Hz), 7.77(d, 2H,
 J=8.28 Hz), 7.71(d, 2H, J=8.83 Hz), 7.18(d, 1H, J=2.20 Hz), 7.10(dd, 1H, J=8.28, 2.20 Hz), 6.68(d,
 1H, J=8.28 Hz), 4.71(q, 1H, J=6.53 Hz), 4.26(s, 2H), 3.42(s, 2H), 3.03(br s, 4H), 2.56(t, 4H, J=4.83
 Hz), 2.20(m, 6H), 1.63(d, 3H, J=6.53 Hz),
 MS(ES⁻) M-H= 747.0

40 2-[4-[(4-[(4-Fluoroanilino)carbonyl]-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid
 MS(ES⁻) M-H= 687.5

45 2-[4-[(4-[(4-(4-Methoxybenzoyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]sulfanyl]-2-methylphenoxy}propanoic acid
 50 ¹H NMR (CD₃OD) 300MHz δ 8.02(d, 2H, J=8.20 Hz), 7.69(d, 2H, J=8.20 Hz), 7.38(d, 2H,
 J=8.79 Hz), 7.12(d, 1H, J=2.24 Hz), 7.06(dd, 1H, J=8.28, 2.24 Hz), 6.95(d, 2H, J=8.79 Hz), 6.61(d,
 1H, J=8.28 Hz), 4.58(q, 1H, J=6.78 Hz), 4.25(s, 2H), 3.78(s, 3H), 3.71(br s, 4H), 3.64(s, 2H), 2.88(br
 s, 4H), 2.10(s, 3H), 1.52(d, 3H, J=6.78 Hz),
 MS(ES⁻) M-H= 683.6

2-[4-[(4-[(4-[(3-Methoxyanilino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]propanoic acid

5 ^1H NMR (CDCl₃) 300MHz δ 8.04(d, 2H, J=8.28 Hz), 7.69(d, 2H, J=8.28 Hz), 7.31(d, 1H, J=2.21 Hz), 7.16(m, 2H), 6.89(m, 2H), 6.59(dd, 1H, J=8.28, 2.21 Hz), 6.53(d, 1H, J=8.28 Hz), 4.73(q, 1H, J=6.90 Hz), 4.33(d, 1H, J=6.69 Hz), 4.23(d, 1H, J=6.69 Hz), 3.79(s, 3H), 3.45(m, 6H), 2.36(t, 4H, J=4.69 Hz), 2.24(s, 3H), 1.64(d, 3H, J=6.90 Hz),
 MS(ES⁻) M-H= 699.6

10 **2-[4-[(4-[(4-(Aminocarbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]propanoic acid**

15 ^1H NMR (CD₃OD) 400MHz δ 8.15(d, 2H, J=8.28 Hz), 7.83(d, 2H, J=8.28 Hz), 7.27(d, 1H, J=2.48 Hz), 7.19(dd, 1H, J=8.55, 2.48 Hz), 6.74(d, 1H, J=8.55 Hz), 4.65(br s, 1H), 4.36(s, 2H), 3.57(s, 2H), 3.48(br s, 4H), 2.64(br s, 4H), 2.24(s, 3H), 1.62(d, 3H, J=6.62 Hz),
 MS(ES⁻) M-H= 593.1

2-[4-[(4-[(4-[(Cyclohexylamino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]propanoic acid

20 ^1H NMR (CD₃OD) 400MHz δ 8.15(d, 2H, J=8.28 Hz), 7.81(d, 2H, J=8.28 Hz), 7.24(br s, 1H), 7.13(br s, 1H), 6.73(br s, 1H), 4.75(br s, 1H), 4.30(s, 2H), 3.52(m, 7H), 2.68(br s, 4H), 2.24(s, 3H), 1.75(m, 7H), 1.26(m, 6H),
 MS(ES⁻) M-H= 675.0

25 **2-[2-Methyl-4-[(4-[(4-[(propylamino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoic acid**

30 ^1H NMR (CD₃OD) 400MHz δ 8.15(d, 2H, J=8.00 Hz), 7.81(d, 2H, J=8.00 Hz), 7.25(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.55, 2.21 Hz), 6.70(d, 1H, J=8.55 Hz), 4.68(q, 1H, J=6.53 Hz), 4.30(s, 2H), 3.60(s, 2H), 3.48(br s, 4H), 3.14(t, 2H, J=7.45 Hz), 2.73(t, 4H, J=5.10 Hz), 2.22(s, 3H), 1.63(d, 3H, J=6.53 Hz), 1.52(s, 2H), 0.93(t, 3H, J=7.45 Hz),
 MS(ES⁻) M-H= 635.3

2-[4-[(4-[(4-[(ethylamino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]propanoic acid

35 ^1H NMR (CD₃OD) 400MHz δ 8.15(d, 2H, J=8.28 Hz), 7.81(d, 2H, J=8.28 Hz), 7.25(d, 1H, J=2.48 Hz), 7.14(dd, 1H, J=8.28, 2.48 Hz), 6.70(d, 1H, J=8.28 Hz), 4.67(br s, 1H), 4.29(s, 2H), 3.56(s, 2H), 3.46(br s, 4H), 3.22(q, 2H, J=7.17 Hz), 2.68(t, 4H, J=4.92 Hz), 2.21(s, 3H), 1.61(d, 3H, J=6.35 Hz), 1.14(t, 3H, J=7.17 Hz),
 MS(ES⁻) M-H= 621.1

40 **2-[2-Methyl-4-[(4-[(methylamino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoic acid**

¹H NMR (CD₃OD) 400MHz δ 8.05(d, 2H, J=8.20 Hz), 7.72(d, 2H, J=8.20 Hz), 7.17(d, 1H, J=2.22 Hz), 7.09(dd, 1H, J=8.37, 2.22 Hz), 6.61(d, 1H, J=8.37 Hz), 4.66(q, 1H, J=6.75 Hz), 4.20(s, 2H), 3.56(s, 2H), 3.42(br s, 4H), 2.69(m, 7H), 2.15(s, 3H), 1.58(d, 3H, J=6.75 Hz),
MS(ES⁻) M-H= 607.0

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2-[4-[(4-[(4-[(Isopropylamino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.09(d, 2H, J=8.20 Hz), 7.75(d, 2H, J=8.20 Hz), 7.17(br s, 1H), 7.08(d, 1H, J=8.20 Hz), 6.64(d, 1H, J=8.20 Hz), 4.63(q, 1H, J=6.49 Hz), 4.23(s, 2H), 3.84(m, 1H), 3.46(m, 6H), 2.68(br s, 4H), 2.16(s, 3H), 1.57(d, 3H, J=6.49 Hz), 1.10(d, 6H, J=6.32 Hz),
MS(ES⁻) M-H= 635.0

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2-[4-[(4-[(4-[(tert-Butylamino)carbonyl]-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.08(d, 2H, J=8.20 Hz), 7.75(d, 2H, J=8.20 Hz), 7.16(d, 1H, J=2.22 Hz), 7.07(dd, 1H, J=8.37, 2.22 Hz), 6.64(d, 1H, J=8.37 Hz), 4.61(q, 1H, J=6.75 Hz), 4.21(s, 2H), 3.44(m, 6H), 2.71(br s, 4H), 2.16(s, 3H), 1.55(d, 3H, J=6.75 Hz), 1.27(s, 9H),
MS(ES⁻) M-H= 649.0

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2-[2-Methyl-4-[(4-[(4-[(2-phenylethyl)amino]carbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.08(d, 2H, J=8.03 Hz), 7.75(d, 2H, J=8.03 Hz), 7.17(s, 7H), 6.64(d, 1H, J=8.55 Hz), 4.61(q, 1H, J=6.84 Hz), 4.24(s, 2H), 3.43(m, 9H), 2.76(t, 2H, J=7.52 Hz), 2.62(br s, 4H), 2.16(s, 3H), 1.56(d, 3H, J=6.67 Hz),
MS(ES⁻) M-H= 697.0

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2-[4-[(4-[(4-Benzoyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.03(d, 2H, J=8.28 Hz), 7.70(d, 2H, J=8.28 Hz), 7.42(m, 5H), 7.13(d, 1H, J=2.24 Hz), 7.07(dd, 1H, J=8.45, 2.24 Hz), 6.62(d, 1H, J=8.45 Hz), 4.61(q, 1H, J=6.78 Hz), 4.26(s, 2H), 3.83(br s, 4H), 3.62(s, 2H), 2.86(br s, 4H), 2.11(s, 3H), 1.53(d, 3H, J=6.78 Hz),
MS(ES⁻) M-H= 653.7

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2-[2-Methyl-4-[(4-[(4-(4-propoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.11(d, 2H, J=7.69 Hz), 7.77(d, 2H, J=7.69 Hz), 7.15(s, 1H), 7.08(d, 1H, J=8.61, 2.20 Hz), 6.93(d, 2H, J=8.97 Hz), 6.82(d, 2H, J=8.97 Hz), 6.67(d, 1H, J=8.61 Hz), 4.57(q, 1H, J=6.78 Hz), 4.24(s, 2H), 3.85(t, 2H, J=7.01 Hz), 3.55(s, 2H), 3.18(br s, 4H), 3.03(br s, 4H), 2.16(s, 3H), 1.73(m, 2H), 1.54(d, 3H, J=6.78 Hz), 1.00(t, 3H, J=7.01 Hz),
MS(ES⁻) M-H= 684.0

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2-[4-[({4-[4-(4-Ethoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.11(d, 2H, J=8.06 Hz), 7.77(d, 2H, J=8.06 Hz), 7.15(s, 1H), 7.08(dd, 1H, J=8.42, 2.20 Hz), 6.92(d, 2H, J=8.97 Hz), 6.81(d, 2H, J=8.97 Hz), 6.67(d, 1H, J=8.42

5 Hz), 4.59(q, 1H, J=6.78 Hz), 4.24(s, 2H), 3.95(q, 2H, J=6.78 Hz), 3.54(s, 2H), 3.17(br s, 4H), 3.04(br s, 4H), 2.17(s, 3H), 1.55(d, 3H, J=6.78 Hz), 1.32(t, 3H, J=6.78 Hz),

MS(ES⁻) M-H= 671.0

2-[2-Methyl-4-[({4-[4-(4-(trifluoromethoxy)phenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.15(d, 1H, J=2.24 Hz), 7.12(d, 2H, J=9.14 Hz), 7.08(dd, 1H, J=8.45, 2.24 Hz), 7.00(d, 2H, J=9.31 Hz), 6.66(d, 1H, J=8.45 Hz), 4.59(q, 1H, J=6.72 Hz), 4.24(s, 2H), 3.54(s, 2H), 3.27(m, 4H), 2.97(t, 4H, J=4.83 Hz), 2.16(s, 3H), 1.54(d, 3H, J=6.72 Hz),

15 MS(ES⁻) M-H= 710.0

2-[4-[({4-[4-(3,4-Dimethoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.17(d, 2H, J=8.28 Hz), 7.82(d, 2H, J=8.28 Hz), 7.20(br s, 1H), 7.12(br s, 1H), 6.89(d, 1H, J=8.83 Hz), 6.72(m, 2H), 6.55(dd, 1H, J=8.83, 2.76 Hz), 4.66(br s, 1H), 4.29(s, 2H), 3.84(s, 3H), 3.80(s, 3H), 3.57(s, 2H), 3.25(br s, 4H), 3.07(br s, 4H), 2.23(s, 3H), 1.61(br s, 3H),

MS(ES⁻) M-H= 686.0

2-[4-[({4-[4-(4-Hydroxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.14(br s, 2H), 7.80(br s, 2H), 7.24(br s, 1H), 7.12(br s, 1H), 6.92(br s, 2H), 6.76(br s, 2H), 6.63(sbr , 1H), 4.54(br s, 1H), 4.31(br s, 2H), 3.67(br s, 2H), 3.06(br s, 8H), 2.23(br s, 3H), 1.60(br s, 3H),

30 MS(ES⁻) M-H= 642.3

2-[4-[({4-[4-(3-Hydroxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.15(d, 2H, J=8.28 Hz), 7.81(d, 2H, J=8.28 Hz), 7.22(d, 1H, J=2.21 Hz), 7.15(dd, 1H, J=8.28, 2.21 Hz), 7.08(t, 1H, J=8.14 Hz), 6.71(d, 1H, J=8.28 Hz), 6.49(dd, 1H, J=4, 2.21 Hz), 6.45(t, 1H, J=2.21 Hz), 6.39(dd, 1H, J=8.14, 2.21 Hz), 4.74(q, 1H, J=6.81 Hz), 4.30(s, 2H), 3.85(s, 2H), 3.36(m, 4H), 3.24(m, 4H), 2.21(s, 3H), 1.61(d, 3H, J=6.81 Hz),

MS(ES⁻) M-H= 642.0

2-[4-[({4-[4-(2-Hydroxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.20(d, 2H, J=8.00 Hz), 7.80(d, 2H, J=8.00 Hz), 7.23(br s, 1H), 7.01(m, 3H), 6.82(m, 2H), 6.66(br s, 1H), 4.74(br s, 1H), 4.26(s, 2H), 3.56(s, 2H), 3.12(m, 8H), 2.19(s, 3H), 1.58(br s, 3H),

MS(ES⁻) M-H= 642.1

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2-{4-[(4-[(4-Butyryl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 400MHz δ 8.05(d, 2H, J=8.55 Hz), 7.72(d, 2H, J=8.55 Hz), 7.17(d, 1H, J=2.22 Hz), 7.08(d, 1H, J=8.55 Hz), 6.64(s, 1H), 4.56(q, 1H, J=6.55 Hz), 4.26(s, 2H), 3.54(br s, 4H), 3.38(s, 2H), 2.46(br s, 4H), 2.33(t, 2H, J=7.43 Hz), 2.16(s, 3H), 1.58(m, 5H), 0.93(t, 3H, J=7.43 Hz),

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MS(ES⁻) M-H= 620.0

2-{2-Methyl-4-[(4-[(4-pentanoyl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoic acid

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¹H NMR (CD₃OD) 400MHz δ 8.06(d, 2H, J=8.20 Hz), 7.74(d, 2H, J=8.20 Hz), 7.17(d, 1H, J=2.22 Hz), 7.10(dd, 1H, J=8.20, 2.22 Hz), 6.65(d, 1H, J=8.20 Hz), 4.68(q, 1H, J=6.75 Hz), 4.25(s, 2H), 3.56(br s, 4H), 3.40(s, 2H), 2.56(br s, 4H), 2.36(t, 2H, J=7.35 Hz), 2.16(s, 3H), 1.54(m, 5H), 1.34(m, 2H), 0.90(t, 3H, J=7.35 Hz),

MS(ES⁻) M-H= 634.0

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2-{4-[(4-[(4-Methoxyacetyl)-1-piperazinyl]methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.07(d, 2H, J=8.37 Hz), 7.75(d, 2H, J=8.37 Hz), 7.18(d, 1H, J=2.20 Hz), 7.11(d, 1H, J=8.37 Hz), 6.65(d, 1H, J=8.37 Hz), 4.68(q, 1H, J=6.72 Hz), 4.26(s, 2H), 4.12(s, 2H), 3.57(br s, 2H), 3.46(br s, 2H), 3.39(s, 2H), 3.35(s, 3H), 2.53(t, 4H, J=4.79 Hz), 2.16(s, 3H), 1.56(d, 3H, J=6.72 Hz),

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MS(ES⁻) M-H= 622.0

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2-{4-[(4-[(4-Isobutyryl-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoic acid

¹H NMR (CD₃OD) 300MHz δ 8.10(d, 2H, J=8.28 Hz), 7.76(d, 2H, J=8.28 Hz), 7.20(d, 1H, J=2.21 Hz), 7.13(dd, 1H, J=8.55, 2.21 Hz), 6.69(d, 1H, J=8.55 Hz), 4.67(q, 1H, J=6.81 Hz), 4.31(s, 2H), 3.76(br s, 4H), 3.69(s, 2H), 2.92(m, 5H), 2.20(s, 3H), 1.59(d, 3H, J=6.81 Hz), 1.10(d, 6H, J=6.62 Hz),

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MS(ES⁻) M-H= 620.4

2-{4-[(4-[(4-(2,2-Dimethylpropanoyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]-2-methylphenoxy}propanoic acid

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¹H NMR (CD₃OD) 300MHz δ 8.10(d, 2H, J=8.28 Hz), 7.76(d, 2H, J=8.28 Hz), 7.19(d, 1H, J=2.21 Hz), 7.13(dd, 1H, J=8.28, 2.21 Hz), 6.69(d, 1H, J=8.28 Hz), 4.68(q, 1H, J=6.71 Hz), 4.32(s,

2H), 3.83(br s, 4H), 3.71(s, 2H), 2.98(t, 4H, J=4.83 Hz), 2.20(s, 3H), 1.60(d, 3H, J=6.71 Hz), 1.28(s, 9H),

MS(ES⁻) M-H= 634.2

5 **2-Methyl-2-[4-({[2-[4-(trifluoromethyl)phenyl]phenyl}-4-{4-[3-(trifluoromethyl)phenyl]-1-piperazinyl}methyl)-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy]propanoic acid**

¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.06 Hz), 7.76(d, 2H, J=8.06 Hz), 7.40(t, 1H, J=7.69 Hz), 7.28(d, 2H, J=8.79 Hz), 7.18(s, 2H), 7.09(d, 1H, J=7.69 Hz), 6.81(d, 2H, J=8.79 Hz), 4.31(s, 2H), 3.59(s, 2H), 3.31(t, 4H, J=4.94 Hz), 2.88(t, 4H, J=4.94 Hz), 1.54(s, 6H),

10 MS(ES⁻) M-H= 694.5

CHN Analysis (Theoretical %C=56.97, %H=4.49, %N=6.04; Found %C=56.69, %H=4.66, %N=5.77)

15 **{4-[({4-[(4-(tert-Butoxycarbonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}acetic acid**

¹H NMR (CD₃OD) 400MHz δ 8.05(d, 2H, J=8.28 Hz), 7.73(d, 2H, J=8.28 Hz), 7.18(s, 1H), 7.11(br s, 1H), 6.66(br s, 1H), 4.54(s, 2H), 4.26(s, 2H), 3.42(m, 6H), 2.50(br s, 4H), 2.19(s, 3H), 1.43(s, 9H),

MS(ES⁻) M-H= 636.5

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{2-Methyl-4-[({4-[(4-(2-pyrazinyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}acetic acid

¹H NMR (CD₃OD) 400MHz δ 8.21(s, 1H), 8.09(d, 3H, J=8.10 Hz), 7.80(s, 1H), 7.75(d, 2H, J=8.28 Hz), 7.19(d, 1H, J=2.07 Hz), 7.13(dd, 1H, J=8.45, 2.24 Hz), 6.70(d, 1H, J=8.45 Hz), 4.57(s, 2H), 4.27(s, 2H), 3.66(br s, 4H), 3.53(s, 2H), 2.77(br s, 4H), 2.17(s, 3H),

25 MS(ES⁻) M-H= 612.4

30 **{4-[({4-[(4-(2-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}acetic acid**

¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.18(d, 1H, J=2.20 Hz), 7.02(s, 2H), 6.92(dd, 2H, J=8.10, 2.20 Hz), 6.86(s, 1H), 6.62(d, 1H, J=8.45 Hz), 4.48(s, 2H), 4.25(s, 2H), 3.81(s, 3H), 3.55(s, 2H), 3.11(br s, 4H), 2.96(br s, 4H), 2.17(s, 3H),

MS(ES⁻) M-H= 640.5

35 **{4-[({4-[(4-(3-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}acetic acid**

¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.28 Hz), 7.75(d, 2H, J=8.28 Hz), 7.18(d, 1H, J=2.24 Hz), 7.10(s, 2H), 6.67(d, 1H, J=8.23 Hz), 6.53(dd, 1H, J=8.28, 2.24 Hz), 6.47(t, 1H, J=2.24 Hz), 6.43(dd, 1H, J=8.28, 2.24 Hz), 4.52(s, 2H), 4.25(s, 2H), 3.72(s, 3H), 3.58(s, 2H), 3.24(t, 4H,

40 J=5.09 Hz), 2.98(t, 4H, J=5.09 Hz), 2.17(s, 3H),

MS(ES⁻) M-H= 642.0

2-Methyl-2-{[(4-[(4-(phenoxy carbonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid

5 ¹H NMR (CD₃OD) 400MHz δ 8.07(d, 2H, J=8.28 Hz), 7.73(d, 2H, J=8.28 Hz), 7.34(t, 2H, J=7.59 Hz), 7.27(d, 2H, J=8.45 Hz), 7.18(t, 1H, J=7.59 Hz), 7.06(d, 2H, J=7.59 Hz), 6.80(d, 2H, J=8.45 Hz), 4.33(s, 2H), 3.68(br s, 2H), 3.53(br s, 2H), 3.44(s, 2H), 2.56(br s, 4H), 1.52(s, 6H), CHN Analysis 1MeOH(Theoretical %C=58.02, %H=5.16, %N=5.97; Found %C=58.33, %H=5.09, %N=5.72)

10 **2-{4-[(4-[(4-(tert-Butoxycarbonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}-2-methylpropanoic acid**

15 ¹H NMR (CD₃OD) 400MHz δ 8.04(d, 2H, J=8.28 Hz), 7.71(d, 2H, J=8.28 Hz), 7.22(d, 2H, J=8.10 Hz), 6.78(d, 2H, J=8.10 Hz), 4.27(s, 2H), 3.40(m, 6H), 2.49(br s, 4H), 1.50(s, 6H), 1.41(s, 9H), MS(ES⁻) M-H= 650.5

20 **2-Methyl-2-{4-[(4-[(4-(2-pyrazinyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid**

25 ¹H NMR (CD₃OD) 400MHz δ 8.21(s, 1H), 8.07(m, 3H), 7.79(s, 1H), 7.73(d, 2H, J=8.28 Hz), 7.25(d, 2H, J=8.10 Hz), 6.79(d, 2H, J=8.10 Hz), 4.30(s, 2H), 3.65(br s, 4H), 3.53(s, 2H), 2.72(br s, 4H), 1.53(s, 6H), MS(ES⁻) M-H= 627.6

30 **2-{4-[(4-[(4-(2-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}-2-methylpropanoic acid**

35 ¹H NMR (CD₃OD) 400MHz δ 8.10(d, 2H, J=8.28 Hz), 7.74(d, 2H, J=8.28 Hz), 7.21(d, 2H, J=8.42 Hz), 7.00(m, 1H), 6.92(m, 2H), 6.86(m, 1H), 6.78(d, 2H, J=8.42 Hz), 4.27(s, 2H), 3.81(s, 3H), 3.59(s, 2H), 3.14(br s, 4H), 3.01(br s, 4H), 1.51(s, 6H), MS(ES⁻) M-H= 656.0

40 **2-{4-[(4-[(4-Ethoxycarbonyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}-2-methylpropanoic acid**

45 ¹H NMR (CD₃OD) 400MHz δ 8.05(d, 2H, J=8.10 Hz), 7.72(d, 2H, J=8.10 Hz), 7.24(d, 2H, J=8.42 Hz), 6.79(d, 2H, J=8.42 Hz), 4.30(s, 2H), 4.09(q, 2H, J=7.16 Hz), 3.44(m, 6H), 2.50(s, 4H), 1.52(s, 6H), 1.21(t, 3H, J=7.16 Hz), MS(ES⁻) M-H= 621.7

50 **2-{4-[(4-[(4-Isopropoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}-2-methylpropanoic acid**

55 ¹H NMR (CD₃OD) 400MHz δ 8.13(d, 2H, J=8.06 Hz), 7.79(d, 2H, J=8.06 Hz), 7.13(m, 2H), 6.92(d, 2H, J=8.97 Hz), 6.81(d, 2H, J=8.97 Hz), 6.67(d, 1H, J=8.42 Hz), 4.61(q, 1H, J=6.78 Hz),

4.46(m, 1H), 4.25(s, 2H), 3.56(s, 2H), 3.19(br s, 4H), 3.06(br s, 4H), 2.17(s, 3H), 1.55(d, 3H, J=6.78 Hz), 1.24(d, 6H, J=6.87 Hz),
 MS(ES⁻) M-H= 685.0

5 [4-({[4-([1,1'-Biphenyl]-4-yl)methyl}-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetic acid

TLC(5% MeOH/CH₂Cl₂) R_f= 0.16

MS(ES⁻) M-H= 603

10 {2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-[4-(3-thienyl)benzyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy]acetic acid

¹H NMR (CDCl₃) 300MHz δ 7.93(d, 2H, J=8.23 Hz), 7.61(d, 2H, J=8.23 Hz), 7.44(d, 2H, J=8.23 Hz), 7.36(s, 1H), 7.29(m, 2H), 7.08(m, 3H), 6.54(d, 1H, J=8.23 Hz), 4.52(s, 2H), 4.06(s, 2H), 3.90(s, 2H), 2.15(s, 3H),

15 TLC(5% MeOH/CH₂Cl₂) R_f= 0.18

MS(ES⁻) M-H= 609

[4-({[4-Benzyl-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid

¹H NMR (CD₃OD) 300MHz δ 8.04(d, 2H, J=8.23 Hz), 7.75(d, 2H, J=8.23 Hz), 7.34(d, 2H,

20 J=8.76 Hz), 7.20(m, 5H), 6.88(d, 2H, J=9.76 Hz), 4.66(s, 2H), 4.25(s, 2H), 3.93(s, 2H),

MS(ES⁻) M-H= 513.86

TLC(20% MeOH/CH₂Cl₂) R_f= 0.37

25 2-[4-({[4-Benzyl-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy]propanoic acid

¹H NMR (CDCl₃) 300MHz δ 8.02(d, 2H, J=8.23 Hz), 7.69(d, 2H, J=8.23 Hz), 7.26(m, 7H), 6.83(d, 2H, J=8.76 Hz), 4.80(q, 1H, J=6.72 Hz), 4.14(s, 2H), 3.90(m, 2H), 1.68(d, 3H, J=6.72 Hz),

MS(ES⁻) M-H= 528.43

TLC(20% MeOH/CH₂Cl₂) R_f= 0.60

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[2-Methyl-4-[(2-(4-(trifluoromethyl)phenyl)-4-(2-phenylethyl)-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy]acetic acid

¹H (CDCl₃) 300MHz δ 7.99(d, 2H, J=8.79 Hz), 7.67(d, 2H, J=8.93 Hz), 7.18(m, 8H), 6.60(d, 1H, J=8.51 Hz), 4.64(s, 2H), 3.85(s, 2H), 2.90(m, 2H), 2.80(m, 2H), 2.23(s, 3H),

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[4-({[4-[(Benzyl)oxy]methyl}-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetic acid

¹H (CDCl₃) 300MHz δ 7.99(d, 2H, J=8.79 Hz), 7.67(d, 2H, J=8.79 Hz), 7.33(m, 4H), 7.28(s, 2H), 7.18(dd, 1H, J=2.33, 0.55 Hz), 7.08(ddd, 1H, J=8.38, 2.33, 0.55 Hz), 6.56(d, 1H, J=8.38 Hz),

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4.63(s, 2H), 4.53(s, 2H), 4.39(s, 2H), 4.19(s, 2H), 2.21(s, 3H),

[2-Methyl-4-({[2-(4-(trifluoromethyl)phenyl)-4-(3-phenylpropyl)-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid

1H NMR (CDCl₃) 300MHz δ 7.82(m, 2H), 7.50(m, 2H), 6.94(m, 8H), 3.95(s, 2H), 2.55(m, 4H), 1.99(m, 7H),

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{2-Methyl-4-({[2-(4-(trifluoromethyl)phenyl)-4-(2-phenylethoxy)methyl]-1,3-thiazol-5-yl]methyl}sulfanyl)phenoxy]acetic acid

1H NMR (CDCl₃) 300MHz δ 7.92(m, 2H), 7.62(m, 2H), 7.20(m, 7H), 7.05(br s, 1H), 4.55(s, 2H), 4.38(s, 2H), 4.09(s, 2H), 3.66(br s, 2H), 2.87(br s, 2H), 2.17(s, 3H),

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TLC(5% MeOH/Dichloromethane) R_f= 0.65

[4-({[4-(4-Bromobenzyl)-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetic acid

1H NMR (CDCl₃) 400MHz δ 7.82(d, 2H, J=8.20 Hz), 7.53(d, 2H, J=8.20 Hz), 7.22(d, 2H, J=8.55 Hz), 7.05(m, 1H), 6.97(dd, 1H, J=8.37, 2.39 Hz), 6.88(d, 2H, J=8.55 Hz), 6.47(d, 1H, J=8.37 Hz), 4.47(s, 2H), 3.72(s, 2H), 3.36(s, 2H), 2.08(s, 3H),

TLC(5% MeOH/CH₂Cl₂) R_f= 0.16

15 [4-({[4-Benzyl-2-(4-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]acetic acid

1H (CDCl₃) 300MHz δ 7.97(d, 2H, J=8.79 Hz), 7.64(d, 2H, J=9.48 Hz), 7.21(m, 8H), 6.58(d, 1H, J=8.38 Hz), 4.65(s, 2H), 4.11(s, 2H), 3.93(s, 2H), 2.22(s, 3H),

MS(ES⁺) M+H= 529.99

20 2-{4-({[4-(3-(5-Methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid

1H NMR (CDCl₃) 400MHz δ 8.01(d, 2H, J=8.03 Hz), 7.68(m, 3H), 7.43(m, 1H), 7.36(t, 1H, J=8.03 Hz), 7.20(d, 2H, J=8.89 Hz), 7.05(dd, 1H, J=8.20, 2.39 Hz), 6.79(d, 2H, J=8.89 Hz), 4.76(q, 1H, J=6.78 Hz), 4.66(d, 1H, J=2.28 Hz), 4.36(d, 1H, J=2.28 Hz), 4.24(d, 1H, J=2.70 Hz), 4.15(d, 1H, J=2.70 Hz), 2.71(s, 3H), 1.67(m, 3H),

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MS(ES⁺) M+H= 628.0

2-{4-({[4-(4-Methoxyphenyl)-1-piperazinyl]methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]2-methylphenoxy}propanoic acid

35 1H NMR (CDCl₃) 400MHz δ 9.03(br s, 1H), 7.96(d, 2H, J=8.20 Hz), 7.67(d, 2H, J=8.20 Hz), 7.15(d, 2H, J=8.72 Hz), 6.81(m, 6H), 4.12(s, 2H), 3.73(s, 3H), 3.50(s, 2H), 3.27(br s, 4H), 3.15(br s, 4H), 1.63(s, 6H),

HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run
R_f=2.89 min

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2-{[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy)-2-methylpropanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.87(m, 2H), 7.44(m, 3H), 7.15(d, 2H, J=8.55 Hz), 6.82(m, 6H), 4.08(s, 2H), 3.73(s, 3H), 3.46(s, 2H), 3.31(m, 4H), 3.18(m, 4H), 1.65(s, 6H),

5 HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run
R_t=2.74 min

{4-[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}acetic acid

10 ¹H NMR (CDCl₃) 400MHz δ 10.00(s, 1H), 7.96(d, 2H, J=8.20 Hz), 7.66(d, 2H, J=8.20 Hz), 7.27(d, 2H, J=8.72 Hz), 6.82(m, 6H), 4.51(s, 2H), 4.22(s, 2H), 3.80(s, 2H), 3.72(s, 3H), 3.21(m, 8H),
HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run
R_t=2.74 min

15 (4-[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy)acetic acid

¹H NMR (CDCl₃) 400MHz δ 9.49(br s, 1H), 7.86(m, 2H), 7.42(m, 3H), 7.24(d, 2H, J=8.55 Hz), 6.80(m, 6H), 4.50(s, 2H), 4.22(s, 2H), 3.81(s, 2H), 3.71(s, 3H), 3.24(m, 8H),
HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run

20 R_t=2.55 min

2-{[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid

25 ¹H NMR (CDCl₃) 400MHz δ 9.31(s, 1H), 7.96(d, 2H, J=8.20 Hz), 7.68(d, 2H, J=8.20 Hz), 7.18(d, 2H, J=8.55 Hz), 6.82(m, 6H), 4.73(q, 1H, J=6.67 Hz), 4.16(d, 1H, J .87 Hz), 4.10(d, 1H, J .87 Hz), 3.72(s, 3H), 3.58(d, 1H, J .53 Hz), 3.51(d, 1H, J .53 Hz), 3.24(m, 8H), 1.59(d, 3H, J=6.67 Hz),
HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run
R_t=2.80 min

30 2-{[(4-[(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid

¹H NMR (CDCl₃) 400MHz δ 8.42(s, 1H), 7.84(m, 2H), 7.40(m, 3H), 7.17(d, 2H, J=8.72 Hz), 6.81(m, 6H), 4.69(q, 1H, J=6.67 Hz), 4.11(d, 1H, J .18 Hz), 4.07(d, 1H, J .18 Hz), 3.73(s, 3H), 3.57(d, 1H, J .87 Hz), 3.49(d, 1H, J .87 Hz), 3.18(m, 8H), 1.59(d, 3H, J=6.67 Hz),

35 HPLC(C-18, 3μm) 1%MeOH/0-90% CH₃CN/Water (0.1% TFA)/(50mM Et₃N/TFA) 4min run
R_t=2.63 min

{4-[(4-[(3-(5-Methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}acetic acid

¹H NMR (CDCl₃) 400MHz δ 10.17(s, 1H), 8.02(d, 2H, J=8.20 Hz), 7.67(m, 3H), 7.46(m, 1H), 7.36(t, 1H, J=7.95 Hz), 7.22(d, 2H, J=8.72 Hz), 7.06(dd, 1H, J=8.37, 2.39 Hz), 6.79(d, 2H, J=8.72 Hz), 4.69(s, 2H), 4.58(s, 2H), 4.22(s, 2H), 2.73(s, 3H),
MS(ES⁺) M+H= 614.00

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2-Methyl-2-{4-[(4-[(4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxypropanoic acid

¹H (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.03 Hz), 7.92(d, 2H, J=9.06 Hz), 7.67(d, 2H, J=8.03 Hz), 7.18(d, 2H, J=9.06 Hz), 6.96(d, 2H, J=8.75 Hz), 6.74(d, 2H, J=8.75 Hz), 4.98(s, 2H), 4.29(s, 2H), 2.66(s, 3H), 1.57(s, 6H)
MS(ES⁺) M-H= 640.00

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2-Methyl-2-{[(4-[(4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-phenyl-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxypropanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=9.06 Hz), 7.86(m, 2H), 7.42(m, 3H), 7.17(d, 2H, J=8.72 Hz), 6.96(d, 2H, J=9.06 Hz), 6.73(d, 2H, J=8.72 Hz), 4.92(s, 2H), 4.27(s, 2H), 2.66(s, 3H), 1.57(s, 6H),
MS(ES⁺) M-H= 571.50

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{4-[(4-(5-Methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}acetic acid

¹H NMR (CDCl₃) 400MHz δ 7.98(d, 2H, J=8.20 Hz), 7.93(d, 2H, J=9.06 Hz), 7.66(d, 2H, J=8.20 Hz), 7.28(d, 2H, J=8.89 Hz), 6.96(d, 2H, J=9.06 Hz), 6.76(d, 2H, J=8.89 Hz), 4.86(s, 2H), 4.60(s, 2H), 4.25(s, 2H), 2.62(s, 3H),
MS(ES⁺) M-H= 611.80

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(4-[(4-(5-Methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-phenyl-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy)acetic acid

¹H NMR (CDCl₃) 400MHz δ 7.92(d, 2H, J=9.06 Hz), 7.83(m, 2H), 7.39(m, 3H), 7.23(d, 2H, J=8.90 Hz), 6.95(d, 2H, J=9.06 Hz), 6.76(d, 2H, J=8.90 Hz), 4.70(s, 2H), 4.54(s, 2H), 4.18(s, 2H), 2.60(s, 3H),
MS(ES⁺) M+H= 546.20

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2-{4-[(4-(5-Methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid

¹H NMR (CDCl₃) 400MHz δ 7.97(d, 2H, J=8.20 Hz), 7.92(d, 2H, J=8.89 Hz), 7.65(d, 2H, J=8.20 Hz), 7.22(d, 2H, J=8.89 Hz), 6.94(d, 2H, J=8.89 Hz), 6.73(d, 2H, J=8.89 Hz), 4.86(d, 1H, J .79 Hz), 4.80(d, 1H, J .96 Hz), 4.66(q, 1H, J=6.89 Hz), 4.26(d, 1H, J .87 Hz), 4.20(d, 1H, J .87 Hz), 2.62(s, 3H), 1.58(d, 3H, J=6.89 Hz),
MS(ES⁺) M-H= 626.00

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2-[{[(4-[(4-(5-Methyl-1,2,4-oxadiazol-3-yl)phenoxy]methyl)-2-phenyl-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid

5 ^1H NMR (CDCl₃) 400MHz δ 7.93(d, 2H, J=9.06 Hz), 7.85(m, 2H), 7.41(m, 3H), 7.24(d, 2H, J=8.89 Hz), 6.95(d, 2H, J=9.06 Hz), 6.74(d, 2H, J=8.89 Hz), 4.82(s, 2H), 4.68(q, 1H, J=6.89 Hz), 4.25(d, 1H, J=8.87 Hz), 4.19(d, 1H, J=8.87 Hz), 2.64(s, 3H), 1.61(d, 3H, J=6.89 Hz),
MS(ES⁺) M-H= 558.30

2-[{[(4-[(4-(4-Acetylphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}-2-methylpropanoic acid

10 ^1H NMR (CD₃OD) 400MHz δ 8.04(d, 2H, J=8.10 Hz), 7.85(d, 2H, J=9.14 Hz), 7.72(d, 2H, J=8.10 Hz), 7.25(d, 2H, J=8.79 Hz), 6.93(d, 2H, J=9.14 Hz), 6.81(d, 2H, J=8.79 Hz), 4.32(s, 2H), 3.47(s, 2H), 3.35(t, 4H, J=4.91 Hz), 2.59(t, 4H, J=4.91 Hz), 2.47(s, 3H), 1.47(s, 6H),
MS(ES⁺) M-H= 668.1

15 **2-[{[(4-[(4-(4-Chlorophenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}-2-methylpropanoic acid**

19 ^1H NMR (CD₃OD) 400MHz δ 8.05(d, 2H, J=8.10 Hz), 7.73(d, 2H, J=8.10 Hz), 7.24(d, 2H, J=8.79 Hz), 7.15(d, 2H, J=8.97 Hz), 6.90(d, 2H, J=8.97 Hz), 6.80(d, 2H, J=8.79 Hz), 4.30(s, 2H), 3.57(s, 2H), 3.18(t, 4H, J=5.00 Hz), 2.77(t, 4H, J=5.00 Hz), 1.49(s, 6H),
CHN Analysis: Theory (C, 58.04%; H, 4.72%; N, 6.35%) Found (C, 57.65%; H, 4.80%; N, 6.13%)

2-[{[(4-[(4-(3-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}-2-methylpropanoic acid

25 ^1H NMR (CD₃OD) 400MHz δ 7.98(d, 2H, J=7.93 Hz), 7.63(d, 2H, J=7.93 Hz), 7.12(m, 3H), 6.73(m, 2H), 6.47(m, 1H), 6.38(m, 2H), 4.18(s, 2H), 3.70(s, 3H), 3.50(s, 2H), 3.14(br s, 4H), 2.76(sbr, 4H), 1.49(s, 6H),
CHN Analysis: Theory (C, 60.26%; H, 5.21%; N, 6.39%) Found (C, 59.83%; H, 5.29%; N, 6.32%)

30 **2-[{[(2-(4-Fluorophenyl)-4-[(4-phenoxy carbonyl)-1-piperazinyl]methyl)-1,3-thiazol-5-yl)methyl]sulfanyl}2-methylphenoxy}-2-methylpropanoic acid**

34 ^1H NMR (CDCl₃) 400MHz δ 7.93(m, 2H), 7.35(m, 3H), 7.19(m, 4H), 7.08(m, 2H), 6.69(br s, 1H), 4.27(s, 2H), 3.60(br s, 4H), 3.39(s, 2H), 2.54(br s, 4H), 2.14(s, 3H), 1.55(s, 6H),
MS(ES⁺) M-H= 634.1

2-[{[(4-[(4-(4-Methoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}2-methylphenoxy}-2-methylpropanoic acid

39 ^1H NMR (CD₃OD) 400MHz δ 8.05(br s, 2H), 7.66(d, 2H, J=8.28 Hz), 7.15(s, 1H), 6.84(m, 6H), 4.19(s, 2H), 3.44(s, 2H), 3.69(s, 3H), 3.10(m, 4H), 2.82(br s, 4H), 2.10(s, 3H), 1.52(s, 6H),
MS(ES⁺) M+H= 672.2

2-[4-[(4-(4-Acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]-2-methylphenoxy)-2-methylpropanoic acid

5 ¹H NMR (CD₃OD) 400MHz δ 7.97(d, 2H, J=8.10 Hz), 7.80(d, 2H, J=8.42 Hz), 7.65(d, 2H, J=8.10 Hz), 7.16(br s, 1H), 7.01(br s, 1H), 6.84(d, 2H, J=8.42 Hz), 6.60(br s, 1H), 4.23(s, 2H), 3.44(s, 2H), 3.27(br s, 4H), 2.55(br s, 4H), 2.44(s, 3H), 2.11(s, 3H), 1.52(s, 6H),
MS(ES⁺) M+H= 684.2

10 2-[4-[(4-(3-Methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]-2-methylphenoxy)-2-methylpropanoic acid

15 ¹H NMR (CD₃OD) 400MHz δ 7.96(d, 2H, J=8.10 Hz), 7.61(d, 2H, J=8.10 Hz), 7.03(m, 3H), 6.38(m, 4H), 4.18(s, 2H), 3.69(s, 3H), 3.33(s, 2H), 3.11(m, 4H), 2.66(br s, 4H), 2.09(s, 3H), 1.50(s, 6H),
MS(ES⁺) M-H= 670.0

15 2-[4-[(4-(4-Fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methylsulfanyl]-2-methylphenoxy)-2-methylpropanoic acid

20 ¹H NMR (CD₃OD) 400MHz δ 8.08(d, 2H, J=8.24 Hz), 7.73(d, 2H, J=8.24 Hz), 7.18(br s, 1H), 7.04(br s, 1H), 6.92(m, 4H), 6.72(br s, 1H), 4.26(s, 2H), 3.58(s, 2H), 3.14(br s, 4H), 2.84(br s, 4H), 2.10(s, 3H), 1.60(s, 6H),
MS(ES⁺) M-H= 658.4

2-Methyl-2-(2-methyl-4-[(4-(phenoxy carbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methylsulfanyl]phenoxy)propanoic acid

25 ¹H NMR (CD₃OD) 400MHz δ 8.04(br s, 2H), 7.71(br s, 2H), 7.34(m, 2H), 7.19(m, 3H), 7.04(m, 3H), 4.28(s, 2H), 3.65(s, 2H), 3.45(br s, 4H), 2.47(br s, 4H), 2.12(s, 3H), 1.61(s, 6H),
MS(ES⁺) M-H= 684.0

30 2-[4-[(4-(4-Acetylphenyl)-1-piperazinyl)methyl]-2-(4-fluorophenyl)-1,3-thiazol-5-yl]methylsulfanyl]-2-methylphenoxy)-2-methylpropanoic acid

35 ¹H NMR (CD₃OD) 400MHz δ 7.93(m, 2H), 7.86(d, 2H, J=9.16 Hz), 7.18(m, 3H), 7.07(br s, 1H), 6.95(d, 2H, J=9.16 Hz), 6.69(br s, 1H), 4.23(s, 2H), 3.42(m, 6H), 2.69(br s, 4H), 2.49(s, 3H), 2.13(s, 3H), 1.56(s, 6H),
MS(ES⁺) M-H= 632.3

35 2-(4-[(2-(4-Fluorophenyl)-4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methylsulfanyl]-2-methylphenoxy)-2-methylpropanoic acid

40 ¹H NMR (CD₃OD) 400MHz δ 7.96(m, 2H), 7.19(m, 3H), 7.12(t, 1H, J=8.24 Hz), 7.01(br s, 1H), 6.66(br s, 1H), 6.54(dd, 1H, J=8.24, 2.20 Hz), 6.47(t, 1H, J=2.20 Hz), 6.43(dd, 1H, J=8.24, 2.20 Hz), 4.20(s, 2H), 3.73(s, 3H), 3.55(s, 2H), 3.24(br s, 4H), 2.91(br s, 4H), 2.13(s, 3H), 1.56(s, 6H),
MS(ES⁺) M-H= 620.0

2-[4-({[4-({4-(Ethoxycarbonyl)-1-piperazinyl]methyl}-2-(4-fluorophenyl)-1,3-thiazol-5-yl]methyl}sulfanyl)-2-methylphenoxy]-2-methylpropanoic acid

5 ¹H NMR (CD₃OD) 400MHz δ 7.94(m, 2H), 7.19(m, 3H), 7.00(br s, 1H), 6.66(br s, 1H), 4.23(s, 2H), 4.09(q, 2H, J=7.05 Hz), 3.48(m, 6H), 2.49(br s, 4H), 2.13(s, 3H), 1.56(s, 6H), 1.23(t, 3H, J=7.05 Hz),
MS(ES⁻) M-H= 586.2

10 **2-(4-[(2-(4-Fluorophenyl)-4-({[4-(isopropoxycarbonyl)-1-piperazinyl]methyl}-1,3-thiazol-5-yl)methyl}sulfanyl)-2-methylphenoxy]-2-methylpropanoic acid**

15 ¹H NMR (CDCl₃) 400MHz δ 7.90(m, 2H), 7.18(m, 3H), 7.07(br s, 1H), 6.74(br s, 1H), 4.64(m, 1H), 4.26(s, 2H), 3.44(t, 4H, J=4.58 Hz), 3.36(s, 2H), 2.43(br s, 4H), 2.13(s, 3H), 1.55(s, 6H), 1.22(d, 6H, J=6.23 Hz),
MS(ES⁻) M-H= 600.0

15 **2-[2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy]propanoic acid**

20 From ethyl 2-{2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy]propanoate (0.167g, 0.25 mmol), 2-{2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy]propanoic acid (0.066g, 41%) was obtained as a white solid.

25 ¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.20 (m, 6 H), 6.71 (d, 1 H), 4.80 (q, 1 H), 4.25 (s, 2 H), 3.93 (s, 2 H), 2.20 (s, 3 H), 1.60 (d, 3 H); ¹⁹F NMR (CD₃OD): δ -59.87 (s) -64.72 (s); MS m/z 628 (M+1); Anal. Calcd. for C₂₈H₂₃FNOS₂: C, 55.5; H, 3.69; N, 2.23%; found: C, 55.27; H, 3.80; N, 2.21%.

{2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid

30 From methyl {2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetate (0.15g, 0.24 mmol), {2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid (0.053g, 36%) was obtained as a white solid.

35 ¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.20 (m, 6 H), 6.71 (d, 1 H), 4.70 (s, 2 H), 4.27 (s, 2 H), 3.94 (s, 2 H), 2.20 (s, 3 H); ¹⁹F NMR (CD₃OD): δ -59.88 (s) -64.72 (s); MS m/z 614 (M+1); Anal. Calcd. for C₂₈H₂₁F₆NO₄S₂: C, 54.81; H, 3.45; N, 2.28%; found: C, 54.64; H, 3.46; N, 2.23%.

2-[2-methyl-4-[(4-(3-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy]propanoic acid

40 From ethyl 2-{2-methyl-4-[(4-(3-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoate (0.255g, 0.44 mmol), 2-{2-methyl-4-[(4-(3-thienyl)methyl)-2-[4-

(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy}propanoic acid (0.058g, 24%) was obtained as a white solid.

¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.33 (t, 1 H), 7.18 (m, 2 H), 6.95 (m, 2 H), 6.69 (d, 1 H), 4.80 (q, 1 H), 4.22 (s, 2 H), 3.95 (s, 2 H), 2.20 (s, 3 H), 1.61 (d, 3 H); MS m/z 550 (M+1);

5 HPLC RT 4.056 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm). Anal. Calcd. for C₂₆H₂₂F₃NO₃S₃: C, 56.82; H, 4.03; N, 2.55%; found: C, 56.84; H, 4.16; N, 2.53%.

{2-methyl-4-[({4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetic acid

10 From methyl {2-methyl-4-[({4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetate (0.259g, 0.47 mmol), {2-methyl-4-[({4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetic acid (0.138g, 55%) was obtained as a white solid.

¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.33 (t, 1 H), 7.18 (m, 2 H), 6.95 (m, 2 H), 6.69 (d, 1 H), 4.70 (s, 2 H), 4.24 (s, 2 H), 3.95 (s, 2 H), 2.21 (s, 3 H); MS m/z 536 (M+1); HPLC RT 3.979 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm). Anal. Calcd. for C₂₅H₂₀F₃NO₃S₃: C, 56.06; H, 3.76; N, 2.61%; found: C, 55.90; H, 3.88; N, 2.62%.

2-[4-[({4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid

From ethyl 2-[4-[({4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoate (0.091g, 0.16 mmol), 2-[4-[({4-(2-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoic acid (0.019g, 22%) was obtained as a white solid.

25 ¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.37 (s, 1 H), 7.21 (s, 1 H), 7.17 (d, 1 H), 6.72 (d, 1 H), 6.31 (s, 1 H), 5.99 (s, 1 H), 4.80 (q, 1 H), 4.22 (s, 2 H), 3.97 (s, 2 H), 2.22 (s, 3 H), 1.63 (d, 3 H); MS m/z 534 (M+1); HPLC RT 3.929 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm). Anal. Calcd. for C₂₆H₂₂F₃NO₄S₂: C, 58.53; H, 4.16; N, 2.62%; found: C, 58.04; H, 4.76; N, 2.47%

30 **2-[4-[({4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid**

From ethyl 2-[4-[({4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoate (0.177g, 0.32 mmol), 2-[4-[({4-(3-furylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy]propanoic acid (0.030g, 18%) was obtained as a white solid.

35 ¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.39 (s, 1 H), 7.20 (m, 3 H), 6.70 (d, 1 H), 6.29 (s, 1 H), 4.80 (q, 1 H), 4.22 (s, 2 H), 3.70 (s, 2 H), 2.20 (s, 3 H), 1.62 (d, 3 H); MS m/z 534 (M+1); HPLC RT 3.966 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

40 Anal. Calcd. for C₂₆H₂₂F₃NO₄S₂: C, 58.53; H, 4.16; N, 2.62%; found: C, 58.38; H, 4.30; N, 2.54%

2-{2-methyl-4-[{(4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid

From ethyl 2-{4-[{(4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}propanoate (0.21g, 0.36 mmol), 2-{2-methyl-4-[{(4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid (0.019g, 10%) was obtained as a white solid.

¹H NMR (CD₃OD): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.20 (m, 3 H), 6.91 (t, 1 H), 6.79 (s, 1 H), 6.69 (d, 1 H), 4.80 (q, 1 H), 4.24 (s, 2 H), 4.09 (s, 2 H), 2.20 (s, 3 H), 1.62 (d, 3 H); MS m/z 550 (M+1); HPLC RT 4.074 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

10

2-methyl-2-{4-[{(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid

From ethyl 2-methyl-2-{4-[{(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoate (0.210g, 0.32 mmol), 2-methyl-2-{4-[{(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}propanoic acid (0.035g, 17%) was obtained as a cream solid.

¹H NMR (CD₃Cl₃): δ 8.05 (d, 2 H), 7.77 (d, 2 H), 7.28 (d, 2 H), 7.22 (d, 2 H), 7.13 (d, 2 H), 6.86 (d, 2 H), 4.19 (s, 2 H), 3.96 (s, 2 H), 1.63 (s, 6 H); ¹⁹F NMR (CD₃Cl₃): δ -58.26 (s) -63.16 (s); MS m/z 628 (M+1); HPLC RT 4.526 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm). Anal. Calcd. for C₂₉H₂₃F₆NO₄S₂: C, 55.5; H, 3.69; N, 2.23%; found: C, 55.78; H, 3.83; N, 2.10%

{2-Methyl-4-[{(4-[4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid

From ethyl {2-methyl-4-[{(4-[4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetate (0.13g, 0.23 mmol), {2-methyl-4-[{(4-[4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]phenoxy}acetic acid (0.011g, 9%) was obtained as a cream solid.

25

¹H NMR (CD₃Cl₃): δ 8.01 (d, 2 H), 7.68 (d, 2 H), 7.24 (s, 1 H), 7.15 (d, 2 H), 6.72 (s, 1 H), 6.64 (d, 1 H), 4.75 (s, 2 H), 4.19 (s, 2 H), 4.05 (s, 2 H), 2.20 (s, 3 H), 2.29 (s, 3 H); MS m/z 550 (M+1); HPLC RT 4.366 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

{4-[{(4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}acetic acid

From ethyl {4-[{(4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}acetate, (0.1g, 0.17 mmol), {4-[{(4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]1,3-thiazol-5-yl)methyl}sulfanyl]2-methylphenoxy}acetic acid (0.027g, 28%) was obtained as a cream solid.

35

¹H NMR (CD₃Cl₃): δ 7.99 (d, 2 H), 7.68 (d, 2 H), 7.22 (s, 1 H), 7.13 (m, 2 H), 6.79 (m, 2 H), 6.62 (d, 1 H), 4.70 (s, 2 H), 4.20 (s, 2 H), 3.86 (s, 2 H), 2.23 (s, 3 H); ¹⁹F NMR (CD₃Cl₃): δ -63.15 (s) -114.03 (s) -114.06 (s); MS m/z 566 (M+1); HPLC RT 4.356 (C18 4.2x100mm, 0-100% ACN/H₂O

(0.1% TFA), 6min @ 2ml/min @254/220nm). Anal. Calcd. for $C_{27}H_{20}F_5NO_3S_2 \cdot 0.5H_2O$: C, 56.44; H, 3.68; N, 2.44%; found: C, 56.40; H, 3.79; N, 2.20%

{4-[({4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-

methylphenoxy}acetic acid

From ethyl {4-[({4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetate (0.160g 0.27 mmol), {4-[({4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetic acid (0.005g, 3%) was obtained as a cream solid.

10 1H NMR (CD_3Cl_2): δ 8.01 (d, 2 H), 7.68 (d, 2 H), 7.23 (s, 1 H), 7.11 (m, 3 H), 6.82 (d, 2 H), 6.62 (d, 1 H), 4.90 (s, 2 H), 4.17 (s, 2 H), 3.90 (s, 2 H), 3.80 (s, 3 H), 2.25 (s, 3 H); MS m/z 560.

2-Methyl-2-[4-[({4-(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}propanoic acid

15 From ethyl 2-methyl-2-[4-[({4-(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoate (0.17g 0.29 mmol), 2-methyl-2-[4-[({4-(4-methyl-2-thienyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]propanoic acid (0.002g, 1.2%) was obtained as a cream solid.

10 1H NMR (CD_3Cl_2): δ 8.01 (d, 2 H), 7.78 (d, 2 H), 7.28 (d, 2 H), 6.86 (d 2 H), 6.73 (s, 1 H), 6.63 (s, 1 H), 4.18 (s, 2 H), 3.99 (s, 2 H), 2.21(s, 3 H), 1.63 (s, 6 H); MS m/z 564 (M+1); HPLC RT 4.413 (C18 4.2x100mm, 0-100% ACN/H₂O (0.1% TFA), 6min @ 2ml/min @254/220nm).

25 The following is an alternative procedure for the synthesis of Ethyl 2-[4-[({4-(hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy]-2-methylpropanoate

Ethyl 2-[4-(chlorosulfonyl)phenoxy]-2-methylpropanoate

Cool a solution of the ethyl 2-methyl-2-phenoxypropanoate, (1.0 wt, 1.0 eq), in dichloromethane (7.5 vols) to 0°C with stirring under a nitrogen atmosphere. Slowly add neat 30 chlorosulfonic acid (0.78 wt, 1.4 eq) to the reaction mixture at a rate such that the reaction temperature never rises above 5.0 °C. The addition typically takes 30 minutes to complete. Following the completion of the addition, stir the reaction mixture at 0-1°C. Follow the course of the reaction by HPLC. The reaction is typically complete after 30 minutes. At this point, slowly treat the reaction mixture with DMF (1.75 L) (1.40 wt, 4.0 eq). The addition of DMF to the reaction mixture is very 35 exothermic. Adjust the rate of addition so that the reaction temperature never rises above 10.0 °C. The addition of DMF to the reaction mixture takes approximately 30 minutes. Following the completion of the DMF addition, re-cool the reaction mixture to 0.5 to 1°C. Treat the cooled reaction mixture with neat thionyl chloride (619 mL, 1.01 kg) (0.86 wt, 1.5 eq). Adjust the rate of addition so that the process temperature never reaches 5°C. The addition of thionyl chloride to the reaction 40 mixture is not very exothermic at all. Hence, the addition of thionyl chloride is typically complete in 5 minutes. Following the completion of the DMF addition, warm the reaction mixture to 20°C with stirring. Follow the course of the reaction via HPLC. After 2.0 h, the reaction is typically complete. At

5 this point, cool the reaction mixture to 0-1°C and carefully treat the reaction mixture with water (8.8 L) (7.5 vols). [Note: The addition of water may be somewhat exothermic depending upon how much unreacted thionyl chloride is left in the reaction mixture.] Separate the organic layer and wash the organic layer with aqueous 0.1 N HCl solution (2 X 7.5 vols). Separate the organic layer, concentrate the organic layer to a minimum stir volume, treat the organic layer with isopropyl acetate (1 X 5.0 vols) and then concentrate the resulting solution via vacuum distillation to afford the titled compound as a translucent bronze colored oil.

Yield (% theory): 85-98%.

10 ¹H NMR (400 MHz, CDCl₃) δ 7.90 (2H, bd), 6.90 (2H, bd), 4.22 (2H, q, J=7.0 Hz), 1.67 (6H, s), 1.20 (3H, t, J=7.0 Hz)

Diethyl 2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-4,5-dicarboxylate

15 Heat a solution of the 4-fluorobenzene carbothioamide, (1.0 wt, 1.0 eq), in absolute ethanol (3 vols) to 50 °C with stirring under a nitrogen atmosphere. Add diethyl 2-chloro-3-oxosuccinate (1.2 wt, 1.1 eq), in one portion. Some warming is seen during the addition which is typically complete in less than 30 minutes. After the addition is complete, heat the reaction mixture to about 68°C. Hold the reaction mixture at 67-69°C for 6 h and then cool the reaction mixture to ambient temperature overnight. Dilute the resulting yellow hazy solution slowly with aqueous 50% ethanol solution (3 vols), stir at ambient temperature for 4h, and then cool the reaction mixture to <5°C. Filter the solids. Wash 20 the wet cake with aqueous 50% ethanol solution (3 vols) and dry at 45 °C to constant weight to afford the title compound as an off-white to white colored solid.

Yield (% theory): 78-83%.

25 ¹H NMR (300 MHz, CDCl₃) δ 8.14 (2H, d, J=8.2Hz), 7.76 (2H, d, J=8.2Hz), 4.52 (2H, q, J=7.1 Hz), 4.43 (2H, q, J=7.1 Hz), 1.47 (3H, t, J=7.1Hz), 1.42 (3H, t, J=7.1Hz).

{5-Hydroxymethyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methanol

30 To a suspension of lithium aluminum hydride (0.14 wt) in THF (3.4 vols), add a solution of the diethyl 2-[4-(trifluoromethyl)phenyl]-1,3-thiazole-4,5-dicarboxylate (1.0 wt, 1.0 eq), dissolved in THF (2 vols) at a rate such that the temperature of the reaction mixture is maintained at below -10°C. The addition time is 1.5-3.0 hr. After the addition is complete, stir the reaction mixture at ambient temperature for 18 h. Quench the reaction by adding aqueous 16% sulfuric acid (2.4 vols). Charge ethyl acetate (5 vols) with stirring to the reaction mixture followed with water (5 vols). Filter the resulting two phase mixture through celite (0.4 wt). Separate the layers and wash the organic layer with water (4 X 4 vols) and with brine (2 X 4 vol). Reduce the total volume of the reaction mixture via 35 vacuum distillation to leave the solid suspended in ethyl acetate (1-1.5 vols). Dilute the slurry with dichloromethane (5 vols) and stir the suspension for at least 6 h. Filter the tan-colored solid. Wash the wet cake with dichloromethane (2 vols) and dry the wet cake at 45°C under mild vacuum to afford the title compound as an off-white solid.

Yield (% theory): 65-85%.

40 ¹H NMR (300 MHz, CD₃OD) δ 8.15(2H, d, J=8.3Hz), 7.79(2H, d, J=8.3Hz), 4.92 (2H, s), 4.90 (2H, s), 4.77(2H, s).

Ethyl 2-[4-[(4-hydroxymethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl]-sulfanyl]phenoxy)-2-methylpropanoate .

To a stirred suspension of zinc dust (0.75 wt, 3.5 eq) in isopropyl acetate (5 vols), add a solution of DME (0.5 vol) and water (0.5 eq). Heat the resulting solution from room temperature to 5 40°C. Treat the reaction mixture with a solution of ethyl 2-[4-(chlorosulfonyl)phenoxy]-2- methylpropanoate (1.0 wt, 1.0 eq) and dichlorodimethylsilane (0.32 wt, 0.75 eq) in isopropyl acetate (3 vols) over a period of 2 h as this addition is mildly exothermic. After the addition is complete, increase the process temperature to 60°C. Treat the suspension at 60°C slowly with neat dichlorodimethylsilane (0.95 wt, 2.3 eq) over a period of 1 h. When the reduction of the 10 sulfonylchloride is deemed complete (by HPLC), treat the reaction mixture with {5-Hydroxymethyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-4-yl}methanol (1.04 wt, 1.1 eq) in one portion at 60°C. After the addition is complete, increase the process temperature to 89°C and stir the reaction mixture at this temperature for 3 to 5 h then cool to ambient temperature. Filter the reaction mixture to remove unreacted zinc residue, wash the filtrate with water (2 X 8 vols) and concentrate the organic layer to 15 about 3.5 volumes via vacuum distillation at 40-45°C. Dissolve the resultant, somewhat syrupy, residue in ethanol (2 vols) and treat the resulting solution with iso-octane (2 vols). Cool the clear yellow-tinted solution to ambient temperature to induce crystallization of the product. Collect the solid via filtration. Wash the wet cake with iso-octane/EtOH (9:1, 1 vol) and dry under vacuum (~21 Torr) at 60 °C for 12 h to afford the title compound as an off-white solid.

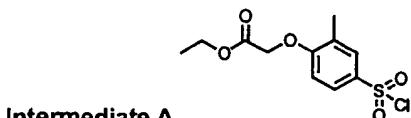
20 Yield (% theory): 45-55%.

¹H NMR (400 MHz, CDCl₃) δ 7.96 (2H, d, J=8.5 Hz), 7.66 (2H, d, J=8.5 Hz), 7.24 (2H, d, J=8.8 Hz), 6.74 (2H, d, J=8.8 Hz), 4.45 (2H, d, J=3.5 Hz), 4.19 (2H, q, J=7.2 Hz), 4.16 (2H, s), 2.30 (1H, br s), 1.57 (6H, s), 1.20 (3H, t, J=7.2 Hz).

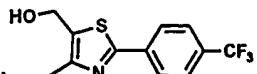
25 The following Intermediates and ligands were prepared for the binding and transfection assays described below:

i) 2-[2-methyl-4-[(4-methyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy)acetic acid

30 This compound was used as a PPARdelta reference in the transfection assays described below and was prepared according to the following method:

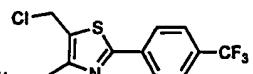


Chlorosulfonic acid (15mL) was cooled to 0°C. then 10.0 g (0.05M) of ethyl (2-35) methylphenoxyacetate was added over 10 m. The reaction mixture was stirred at 0-5°C for 30m, the bath was removed and stirring continued for 2 h. The reaction mixture was poured into ice, forming a white solid which was washed with ice water and dried under high vacuum affording the title compound (12.846 g, 86%).

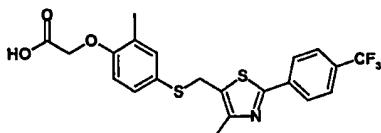
Intermediate B:

To a well stirred solution of LiAlH₄ (1.52 g, 40 mmol) in dry THF (50 mL) at 0 °C, was slowly added a solution of ethyl 4-methyl-2-[4-(trifluoromethyl)phenyl]-thiazole-5-carboxylate (12.6 g, 40 mmol) in dry THF (50 mL). The mixture was stirred at room temperature for 2 hs. The reaction was

5 quenched by slow addition at 0 °C of water (2 mL), 5N NaOH (2 mL) and water (6 mL). The precipitate was filtered, washed with EtOAc, MeOH, CH₂Cl₂ and THF. After evaporation, a yellow solid was obtained, that was crystallized from MeOH-water to afford intermediate 1 depicted above (9.90 g, 36 mmol, 90%) as a yellow solid mp 120-122 °C.

Intermediate C:

10 To a cold (0°C) stirred solution of intermediate 1 (8.2g, 30 mmol) and Et₃N (6.07 g, 8.36 mL, 60 mmol), in dry CH₂Cl₂ (120 mL) was slowly added MeSO₂Cl (5.49 g, 3.71mL, 48 mmol). After 2 hs at 0°C more Et₃N (6 mmol) and MeSO₂Cl (4.8 mmol) were added. After 2 more h a tlc (hexane:EtOAc, 1:1) showed complete reaction. The reaction mixture was diluted with CH₂Cl₂ (120 mL) and washed with NaHCO₃ (sat.) (2 x 240 mL) and water (2 x 240 mL), dried, filtered and 15 evaporated to afford intermediate 2 (8.0 g, 27 mmol, 90%) as a yellow solid.

2-[2-methyl-4-[{4-methyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl]sulfanyl]phenoxy}acetic acid:

20 Intermediate A (4.68g, 16mM) was refluxed with 9.6 g of tin powder in ethanol (20mL) and dioxane/HCl (20 mL). After 3 h the reaction mixture was poured into ice and CH₂Cl₂ (200mL) and filtered. The phases were separated and the aqueous layer was extracted 2X 50 mL CH₂Cl₂. The combined organic layers were dried (MgSO₄), filtered and evaporated to yield 3.5g (97%). This material readily forms disulfides and therefore was used immediately. It was dissolved in acetonitrile (50mL) with intermediate C (4.0g, 14.0mM) and Cs₂CO₃ (10.1g, 31.0 mM) and stirred for 1 h then diluted with ether (200mL) and water (200mL). The phases were separated and the organic phase was washed 2X NaOH 0.1N (50mL), dried (MgSO₄), filtered and evaporated to afford crude product (6.57 g,) which was slurried in hexane:ether (1:1) and filtered to yield pure intermediate D (5.0g, 74%). This material was hydrolyzed as described below to prepare the title compound. A solution of the corresponding ester (Intermediate D) (1 mmol) in THF (10 mL) (in some cases few drops of MeOH were added to help solubility), was treated with 1N LiOH in water (2mL, 2 mmol), and stirred 16 h at room temperature (when reactions were slow, the temperature was elevated to 50°C). The solution was neutralized with 1N HCl (2 mL, 2 mmol) and the organic solvent evaporated to afford an aqueous

solution with an insoluble product. If the insoluble was a solid, it was filtered and dried to afford the final product. If the insoluble was an oil, it was extracted with EtOAc (30 mL). The organic solution was separated, washed with water (2 x 30 mL), dried, filtered, and evaporated to afford the final product.

5

Binding Assay:

Compounds were tested for their ability to bind to hPPAR gamma, hPPARalpha, or PPARdelta using a Scintillation Proximity Assay (SPA). The PPAR ligand binding domain (LBD) was expressed in *E. coli* as polyHis tagged fusion proteins and purified. The LBD was then labeled with biotin and immobilized on streptavidin-modified scintillation proximity beads. The beads were then incubated with a constant amount of the appropriate radioligand (3H-BRL 49653 for PPARgamma, radiolabelled 2-(4-(2,3-D³H-tritio-1-heptyl-3-(2,4-difluorophenyl)ureido)ethyl)phenoxy)-2-methylbutanoic acid for hPPAR alpha (see WO 00/08002) and labelled GW 2433 (see Brown, P. J et al. *Chem. Biol.*, 4, 909-918 (1997). For the structure and synthesis of this ligand) for PPAR delta) and variable concentrations of test compound, and after equilibration the radioactivity bound to the beads was measured by a scintillation counter. The amount of nonspecific binding, as assessed by control wells containing 50 μ M of the corresponding unlabeled ligand, was subtracted from each data point. For each compound tested, plots of ligand concentration vs. CPM of radioligand bound were constructed and apparent KI values were estimated from nonlinear least squares fit of the data assuming simple competitive binding. The details of this assay have been reported elsewhere (see, Blanchard, S. G. et al. Development of a Scintillation Proximity Assay for Peroxisome Proliferator-Activated Receptor gamma Ligand Binding Domain. *Anal. Biochem.*, 257, 112-119 (1998)).

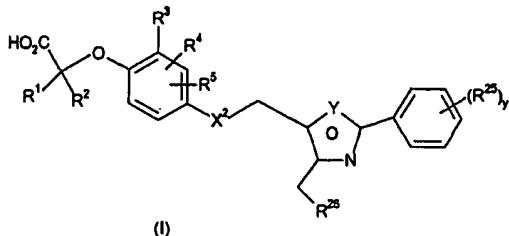
Transfection assay:

Compounds were screened for functional potency in transient transfection assays in CV-1 cells for their ability to activate the PPAR subtypes (transactivation assay). A previously established chimeric receptor system was utilized to allow comparison of the relative transcriptional activity of the receptor subtypes on the same target gene and to prevent endogenous receptor activation from complicating the interpretation of results. See, for example, Lehmann, J. M.; Moore, L. B.; Smith-Oliver, T. A.; Willison, W. O.; Willson, T. M.; Kliewer, S. A., An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor gamma (PPARgamma), *J. Biol. Chem.*, 270, 12953-6 (1995). The ligand binding domains for murine and human PPAR alpha, PPAR gamma, and PPAR delta were each fused to the yeast transcription factor GAL4 DNA binding domain. CV-1 cells were transiently transfected with expression vectors for the respective PPAR chimeras along with a reporter construct containing five copies of the GAL4 DNA binding site driving expression of secreted placental alkaline phosphatase (SPAP) and beta-galactosidase. After 16 h, the medium was exchanged to DME medium supplemented with 10% delipidated fetal calf serum and the test compound at the appropriate concentration. After an additional 24h, cell extracts were prepared and assayed for alkaline phosphatase and β -galactosidase activity. Alkaline phosphatase activity was corrected for transfection efficiency using the beta-galactosidase activity as an internal standard (see, for example, Kliewer, S. A., et. al. *Cell* 83, 813-819 (1995)). Rosiglitazone (BRL 49653) was used as a positive control in the hPPAR gamma assay. The positive control for PPAR delta assays was 2-(2-methyl-4-[(4-methyl-2-(trifluoromethyl)phenyl)-1,3-thiazol-5-yl]methyl)sulfanyl]phenoxy)acetic acid.

The positive control in the hPPARalpha transfection assay was 2-[4-(2-(3-(4-fluorophenyl)-1-heptylureido)ethyl)-phenoxy]-2-methylpropionic acid, which can be prepared as described in Brown, Peter J., et. al. *Synthesis* Issue 7, 778-782 (1997), or patent publication WO 9736579.

All of the above examples of this invention were agonists of at least one hPPAR subtype.

1. A compound of formula (I) or a pharmaceutically acceptable salt, solvate, or hydrolyzable ester thereof wherein:



5

R¹ and R² are independently hydrogen or C₁₋₃ alkyl;

X² is O, S, or CH₂;

R³, R⁴, and R⁵ are independently H, C₁₋₃alkyl, OCH₃, CF₃, OCF₃, CN, allyl, or halogen;

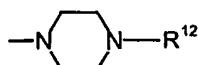
Y is S or O;

10 each R²⁵ is independently CH₃, OCH₃, CF₃, or halogen;

y is 0, 1, 2, 3, 4 or 5; and

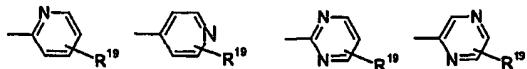
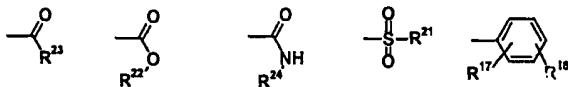
R²⁶ is selected from the group consisting of the moieties A through K depicted below:

A



15

wherein R¹² is selected from the group consisting of C₁₋₆alkyl, C₁₋₆alkylenearyl, and the moieties depicted below in Group II,



Group II

20

wherein R¹⁷ and R¹⁸ are independently hydrogen, halogen, hydroxy, -CN, C₁₋₆alkyl, C₁₋₆perfluoroalkyl, C₁₋₆acyl, -OC₁₋₆alkyl, perfluoroOC₁₋₆alkyl, or C₁₋₆hydroxyalkyl;

R¹⁹ is hydrogen or C₁₋₆alkyl;

R²¹ is C₁₋₆alkyl, -C₁₋₆alkylenearyl, aryl, or -aryl-heteroaryl;

25

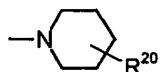
R²² is C₁₋₆alkyl, aryl, or -C₁₋₆alkylenearyl;

R²³ is C₁₋₆alkyl, C₃₋₆cycloalkyl, or aryl;

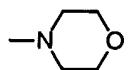
R²⁴ is C₁₋₆alkyl, -C₁₋₆alkylenearyl, C₃₋₆cycloalkyl, or aryl;

B

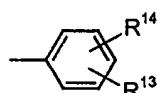
5 wherein Z is O, N or S (note that when Z is N, the depicted bond can be attached to the nitrogen in the ring as well as any of the carbons in the ring);

C

10 wherein R²⁰ is C₁₋₆alkyl, aryl, -OC₁₋₆alkyl, hydroxy, C₁₋₆hydroxyalkyl, or 1-alkoxyC₁₋₆alkyl;

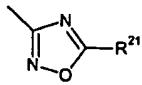
D

15

E

wherein R¹³ and R¹⁴ are independently hydrogen, halogen, CN, perfluoroC₁₋₆alkyl, perfluoroOC₁₋₆alkyl, C₁₋₆alkyl, -OC₁₋₆alkyl, -C₁₋₆alkyleneOC₁₋₆alkyl, -SC₁₋₆alkyl, or aryl;

20

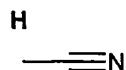
F

wherein R²¹ is independently as defined above;

25

G

30 wherein R¹⁵ and R¹⁶ are independently hydrogen, C₁₋₆alkyl, C₃₋₆cycloalkyl optionally substituted with 1 or 2 C₁₋₃alkyl groups, or R¹² as defined above;



I

5 —(CH₂)_nPh

wherein n is 1-3

J

10 —O—R²¹

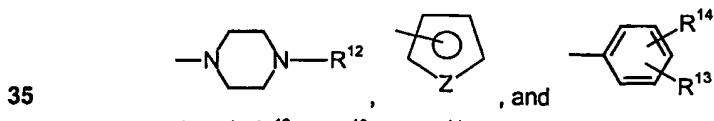
wherein R²¹ is independently as defined above; and

K

15 —S—R²¹

wherein R²¹ is independently as defined above.

2. A compound according to claim 1 wherein R¹ and R² are independently H or CH₃.
3. A compound according to claim 2 wherein R¹ and R² are either both H or both CH₃.
- 20 4. A compound according to any of claims 1-3 wherein X² is O or S.
5. A compound according to any of claims 1-4 wherein R³ is CH₃ or H.
- 25 6. A compound according to any of claims 1-5 wherein R⁴ and R⁵ are H.
7. A compound according to any preceding claim wherein Y is S.
8. A compound according to any of claims 1-8 wherein y is 1 or 2.
- 30 9. A compound according to claim 8 wherein each R²⁵ is independently halogen or CF₃.
10. A compound according to any preceding claim wherein R²⁶ is selected from the group consisting of

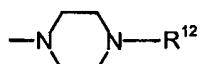


wherein R¹², Z, R¹³, and R¹⁴ are as defined in Claim 1.

11. A compound according to any preceding claim wherein R¹³ and R¹⁴ are independently fluorine, bromine, phenyl, thiienyl, CF₃, OCF₃, OCH₃, SCH₃, or t-butyl, R¹⁷ and R¹⁸ are independently

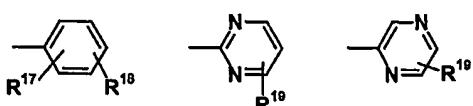
hydrogen, OH, CN, OC₁₋₃alkyl, halogen, CF₃, COCH₃, CH(OH)CH₃, or OCF₃, R²¹ is phenyl optionally substituted by methyl or CN, -C₁₋₃alkylenephenyl, or phenyl-5-methyl-1,2,4-oxadiazol-3-yl, R²² is C₁₋₆alkyl, phenyl, or benzyl, R²³ is C₁₋₆alkyl, furanyl, thieryl, phenyl optionally substituted by a halogen a methoxy or a dimethylamino group, methoxymethylcyclopropyl, or C₃₋₆cyclalkyl, and R²⁴ is H, C₁₋₆alkyl, 5 cyclohexyl, m-methoxyphenyl, p-fluorophenyl, or -CH₂CH₂phenyl.

12. A compound according to Claim 11 wherein R²⁶ is



and R¹² is selected from the moieties shown in Group IV.

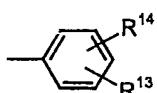
10



Group IV

13. A compound according to Claim 12 wherein R¹⁷ is fluorine, chlorine, OC₁₋₃alkyl or COCH₃, 15 and R¹⁸ is OCH₃ or hydrogen, and R¹⁹ is hydrogen.

14. A compound according to Claim 10 wherein R²⁶ is



20 15. A compound according to Claim 14 wherein R¹⁴ is thieryl, OCH₃, OCF₃, CF₃, or fluorine, and R¹³ is hydrogen or fluorine.

16. A compound of formula (I) selected from:

25 2-[4-((4-acetylphenyl)-1-piperazinyl)methyl]-2-(4-fluorophenyl)-1,3-thiazol-5-yl]methyl)sulfanyl)-2-methylphenoxy)-2-methylpropanoic acid,
 2-methyl-2-(2-methyl-4-[(4-(methylsulfanyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy)propanoic acid,
 {2-methyl-4-[(4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]phenoxy)acetic acid,
 30 {4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]-2,5-dimethylphenoxy)acetic acid,
 2-{4-((4-(4-acetylphenyl)-1-piperazinyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl)sulfanyl]-2-methylphenoxy)propanoic acid,

2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-ethylphenoxy}propanoic acid,

2-{2-methyl-4-[(4-(2-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid,

5 2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

2-{4-[(4-(4-ethoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

10 2-methyl-2-{2-methyl-4-[(4-(phenoxy carbonyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}propanoic acid,

2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-propylphenoxy}propanoic acid,

15 {2-methyl-4-[(4-[4-(3-thienyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}acetic acid,

2-{4-[(2-(4-fluorophenyl)-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-1,3-thiazol-5-yl)methyl]sulfanyl}-2-methylphenoxy}-2-methylpropanoic acid,

20 2-{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}-2-methylpropanoic acid,

2-{4-[(4-(2,4-dimethoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

25 2-isopropyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]phenoxy}acetic acid,

2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-propylphenoxy}propanoic acid,

30 2-{4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}-2-methylphenoxy}propanoic acid,

2-{2-ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid,

35 2-methyl-2-{2-methyl-4-[(4-[4-(trifluoromethyl)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid,

{4-[(4-(4-acetylphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-propylphenoxy}acetic acid,

40 2-{4-[(4-([1,1'-biphenyl]-4-yl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}-2-methylphenoxy}acetic acid,

2-{4-[(4-(4-fluorophenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}propanoic acid,

{4-[(4-(3-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl}methyl)sulfanyl]-2-methylphenoxy}acetic acid,

45 2-{2-methyl-4-[(4-(3-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}phenoxy}propanoic acid,

{4-[{4-[(2-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}acetic acid,

2-{2-isopropyl-4-[{4-[(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid,

5 2-{4-[{4-(4-tert-butylbenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}-2-methylpropanoic acid,

2-{4-[{4-[(3-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoic acid,

10 2-{4-[{4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2,3-dimethylphenoxy}propanoic acid,

2-{4-[{4-[(4-chlorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoic acid,

2-{4-[{4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-fluorophenoxy}propanoic acid,

15 2-{4-[{4-[(2,4-difluorophenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoic acid,

{4-[{4-(2,4-difluorobenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}acetic acid,

20 2-{4-[{4-(4-acetylphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}-2-methylpropanoic acid,

2-methyl-2-{2-methyl-4-[{4-(3-thienylmethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid,

2-{4-[{4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoic acid,

25 {2-ethyl-4-[{4-[(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}acetic acid,

2-{4-[{4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}-2-methylpropanoic acid,

30 2-methyl-2-{4-[{4-(2-pyrazinyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid,

2-{4-[{4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}-2-methylpropanoic acid,

2-{4-[{4-(4-methoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}-2-methylpropanoic acid,

35 2-methyl-2-{2-methyl-4-[{4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid,

2-{4-[{4-(4-isopropoxyphenyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]-2-methylphenoxy}propanoic acid,

2-{2-methyl-4-[{4-(2-pyrimidinyl)-1-piperazinyl]methyl}-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}propanoic acid.

40 {2-methyl-4-[{4-(3-phenylpropyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl]methyl}sulfanyl]phenoxy}acetic acid,

5 [4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-(trifluoromethyl)phenoxy]acetic acid,
 [2-methyl-4-[(4-(5-methyl-1,2,4-oxadiazol-3-yl)phenoxy)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid,
 10 [4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-5-chloro-2-methylphenoxy]acetic acid,
 [4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]acetic acid,
 [4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]acetic acid,
 15 [2,5-dimethyl-4-[(4-(3-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid,
 [2-methyl-4-[(4-(2-pyrazinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid,
 20 [4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2,3-dimethylphenoxy]acetic acid,
 [4-[(2-(4-chlorophenyl)-4-methyl-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy]acetic acid,
 [2-methyl-4-[(4-(4-methyl-2-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid,
 25 [4-[(4-benzyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-bromophenoxy]acetic acid,
 [2-methyl-4-[(4-(2-phenylethoxy)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid,
 [2-methyl-4-[(4-(2-phenylethyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid, and
 pharmaceutically acceptable salts, solvates, and hydrolyzable esters thereof.

17. A compound of formula (I) selected from:
 30 2-methyl-2-(2-methyl-4-[(4-(3-thienyl)methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoic acid,
 2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]2-methylphenoxy]propanoic acid,
 35 {2-ethyl-4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]acetic acid,
 2-{4-[(4-(4-methoxybenzyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}-2-methylpropanoic acid,
 40 2-methyl-2-{4-[(4-(2-pyrazinyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy]propanoic acid,
 2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}-2-methylphenoxy)-2-methylpropanoic acid,
 2-{4-[(4-(4-methoxyphenyl)-1-piperazinyl)methyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}-2-methylpropanoic acid,

2-methyl-2-[2-methyl-4-[(4-[4-(trifluoromethoxy)benzyl]-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid,

2-[4-[(4-[4-(4-isopropoxyphenyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]-2-methylphenoxy}propanoic acid,

5 2-[2-methyl-4-[(4-[4-(2-pyrimidinyl)-1-piperazinyl]methyl)-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl]phenoxy}propanoic acid, and
pharmaceutically acceptable salts, solvates, or hydrolyzable esters thereof

18. A compound according to any preceding claim which is a hPPAR δ agonist.

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19. A compound according to Claim 18 which is also a hPPAR α or hPPAR γ agonist.

20. A compound according to any preceding claim which is a hPPAR pan agonist.

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21. A compound according to any of claims 1-20 for use in therapy.

22. A pharmaceutical composition comprising a compound according to any of claims 1-20.

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23. A pharmaceutical composition according to claim 22 further comprising a pharmaceutically acceptable diluent or carrier.

25

24. Use of a compound according to any of claims 1-20 for the manufacture of a medicament for the treatment of a hPPAR disease or condition.

25. Use according to claim 24 wherein the hPPAR mediated disease or condition is dyslipidemia, syndrome X, heart failure, hypercholesterolemia, cardiovascular disease, type II diabetes mellitus, type I diabetes, insulin resistance, hyperlipidemia, obesity, anorexia bulimia and anorexia nervosa

30 26. A method of treating a hPPAR mediated disease or condition in a patient comprising the administration of a therapeutically effective amount of a compound according to any of claims 1-20.

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27. A method according to claim 26 wherein the hPPAR mediated disease or condition is dyslipidemia, syndrome X, heart failure, hypercholesterolemia, cardiovascular disease, type II diabetes mellitus, type I diabetes, insulin resistance, hyperlipidemia, obesity, anorexia bulimia and anorexia nervosa.

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INTERNATIONAL SEARCH REPORT

In **International Application No**
PCT/US 01/51056

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D277/24	C07D277/28	C07D277/26	C07D263/32	A61K31/42
A61K31/425	A61P3/10	A61P9/10	A61P3/04	

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 08002 A (GLAXO GROUP LTD.) 17 February 2000 (2000-02-17) page 2, line 29 -page 4, line 25; claims; examples ---	1-27
A	US 5 972 881 A (HEYMAN ET. AL.) 26 October 1999 (1999-10-26) column 1, line 60 -column 2, line 29; claims; examples ---	1-27
A	D. BISHOP-BAILEY: "Peroxisome Proliferator Activated Receptors in the Cardiovascular System" BRITISH JOURNAL OF PHARMACOLOGY, vol. 129, no. 5, March 2000 (2000-03), pages 823-34, XP001079321 whole article ---	1-27
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the International search

3 June 2002

Date of mailing of the International search report

21/06/2002

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/US 01/51056

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Category * Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	J. M. LEHMANN ET. AL.: "An Antidiabetic Thiazolidinedione is a High Affinity Ligand for Peroxisome Proliferator-activated Receptor gamma." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 270, no. 22, 2 June 1995 (1995-06-02), pages 12953-6, XP000577082 figure 1 ---	1-27
P,Y	WO 01 40207 A (GLAXO GROUP LTD.) 7 June 2001 (2001-06-07) claims; examples ---	1-27
P,Y	WO 01 00603 A (GLAXO GROUP LTD.) 4 January 2001 (2001-01-04) page 1 -page 4; claims; examples ---	1-27
P,Y	W. R. OLIVER ET. AL.: "A Selective Peroxisome Proliferator-activated Receptor delta Agonist Promotes Reverse Cholesterol Transport." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE USA, vol. 98, no. 9, 24 April 2001 (2001-04-24), pages 5306-11, XP001080446 figure 1 ---	1-27

INTERNATIONAL SEARCH REPORT

- national application No.
PCT/US 01/51056

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 26-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 01/51056

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